

Confidentiality Requested:

Yes  No

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

**Form must be Typed**

**Form must be Signed**

**All blanks must be Filled**

**WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Recompletion Date \_\_\_\_\_ Date Reached TD \_\_\_\_\_ Completion Date or Recompletion Date \_\_\_\_\_

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

|  |   |
|--|---|
| Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No<br><i>(Attach Additional Sheets)</i><br><br>Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No<br><br>Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No<br><br>List All E. Logs Run: | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample<br><br>Name Top Datum |
|--|---|

| CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used  |                   |                           |                   |               |                |              |                            |
|---|-------------------|---------------------------|-------------------|---------------|----------------|--------------|----------------------------|
| Report all strings set-conductor, surface, intermediate, production, etc. |                   |                           |                   |               |                |              |                            |
| Purpose of String   | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs. / Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
|   |                   |                           |                   |               |                |              |                            |
|   |                   |                           |                   |               |                |              |                            |
|   |                   |                           |                   |               |                |              |                            |

| ADDITIONAL CEMENTING / SQUEEZE RECORD  |                  |                |              |                            |
|--|------------------|----------------|--------------|----------------------------|
| Purpose:   | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| <input type="checkbox"/> Perforate<br><input type="checkbox"/> Protect Casing<br><input type="checkbox"/> Plug Back TD<br><input type="checkbox"/> Plug Off Zone |                  |                |              |                            |
|  |                  |                |              |                            |

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

|   |  |         |             |                       |
|---|--|---------|-------------|-----------------------|
| Date of first Production/Injection or Resumed Production/Injection: | Producing Method:<br><input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____ |         |             |                       |
| Estimated Production Per 24 Hours                                   | Oil Bbls.  | Gas Mcf | Water Bbls. | Gas-Oil Ratio Gravity |

|   |   |                                    |
|---|---|------------------------------------|
| DISPOSITION OF GAS:<br><input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease<br><i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION:<br><input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled<br><i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> | PRODUCTION INTERVAL:<br>Top Bottom |
|---|---|------------------------------------|

| Shots Per Foot | Perforation Top | Perforation Bottom | Bridge Plug Type | Bridge Plug Set At | Acid, Fracture, Shot, Cementing Squeeze Record<br><i>(Amount and Kind of Material Used)</i> |
|----------------|-----------------|--------------------|------------------|--------------------|---|
|                |                 |                    |                  |                    |   |
|                |                 |                    |                  |                    |   |
|                |                 |                    |                  |                    |   |
|                |                 |                    |                  |                    |   |

|                |       |         |            |  |
|----------------|-------|---------|------------|--|
| TUBING RECORD: | Size: | Set At: | Packer At: |  |
|----------------|-------|---------|------------|--|

|           |                           |
|-----------|---------------------------|
| Form      | ACO1 - Well Completion    |
| Operator  | Shakespeare Oil Co., Inc. |
| Well Name | CALE 3-27                 |
| Doc ID    | 1663176                   |

Tops

| Name          | Top  | Datum |
|---------------|------|-------|
| Anhydrite     | 2437 | +493  |
| Heebner       | 3917 | -987  |
| Lansing       | 3950 | -1020 |
| Muncie Creek  | 4098 | -1168 |
| Stark Shale   | 4180 | -1250 |
| Hushpuckney   | 4216 | -1286 |
| Pawnee        | 4370 | -1440 |
| Johnson       | 4508 | -1578 |
| Mississippian | 4543 | -1613 |





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil Company

**27-11s-31w Gove Ks**

202 W Main St  
Salem, IL 62881

**Cale 3-27**

Job Ticket: 67978

**DST#: 1**

ATTN: Kent Matson

Test Start: 2022.06.19 @ 20:27:54

## GENERAL INFORMATION:

Formation: **Toronto Lansing A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:06:24

Time Test Ended: 02:35:54

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: **3916.00 ft (KB) To 3960.00 ft (KB) (TVD)**

Reference Elevations: 2930.00 ft (KB)

Total Depth: 3960.00 ft (KB) (TVD)

2919.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8674 Outside**

Press@RunDepth: 157.47 psig @ 3917.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.06.19 End Date: 2022.06.20

Last Calib.: 2022.06.20

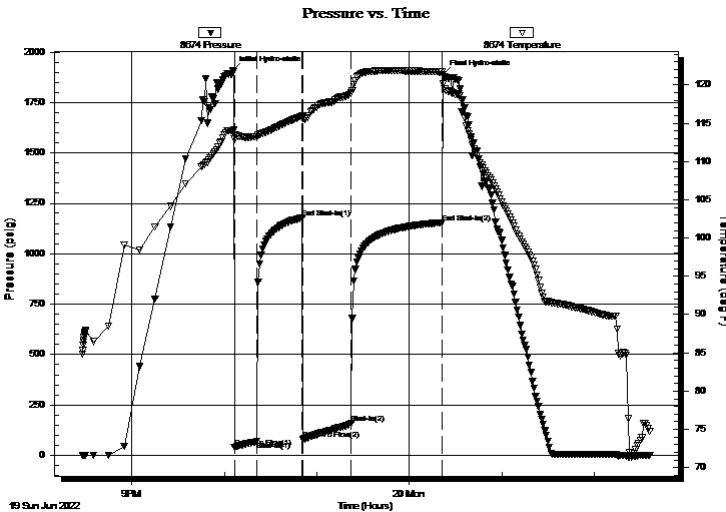
Start Time: 20:27:59 End Time: 02:35:53

Time On Btm: 2022.06.19 @ 22:05:24

Time Off Btm: 2022.06.20 @ 00:21:54

TEST COMMENT: IF: 1/4 blow built to 7.  
IS: No return.  
FF: BOB in 22 min.  
FS: No return. 15-30-30-60

## PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1908.97         | 114.05       | Initial Hydro-static |
| 1           | 40.48           | 112.92       | Open To Flow (1)     |
| 16          | 68.14           | 113.23       | Shut-In(1)           |
| 45          | 1176.97         | 115.94       | End Shut-In(1)       |
| 46          | 80.36           | 115.59       | Open To Flow (2)     |
| 77          | 157.47          | 118.96       | Shut-In(2)           |
| 136         | 1154.36         | 121.67       | End Shut-In(2)       |
| 137         | 1889.83         | 120.10       | Final Hydro-static   |

## Recovery

| Length (ft) | Description   | Volume (bbl) |
|-------------|---------------|--------------|
| 126.00      | mcw 90%w 10%m | 1.77         |
| 146.00      | mcw 60%w 40%m | 2.05         |
|             |               |              |
|             |               |              |
|             |               |              |

## Gas Rates

|  | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|--|----------------|-----------------|------------------|
|  |                |                 |                  |





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shakespeare Oil Company

**27-11s-31w Gove Ks**

202 W Main St  
Salem, IL 62881

**Cale 3-27**

Job Ticket: 67978

**DST#: 1**

ATTN: Kent Matson

Test Start: 2022.06.19 @ 20:27:54

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

64000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

| Length<br>ft | Description   | Volume<br>bbl |
|--------------|---------------|---------------|
| 126.00       | mcw 90%w 10%m | 1.767         |
| 146.00       | mcw 60%w 40%m | 2.048         |

Total Length: 272.00 ft      Total Volume: 3.815 bbl

Num Fluid Samples: 0

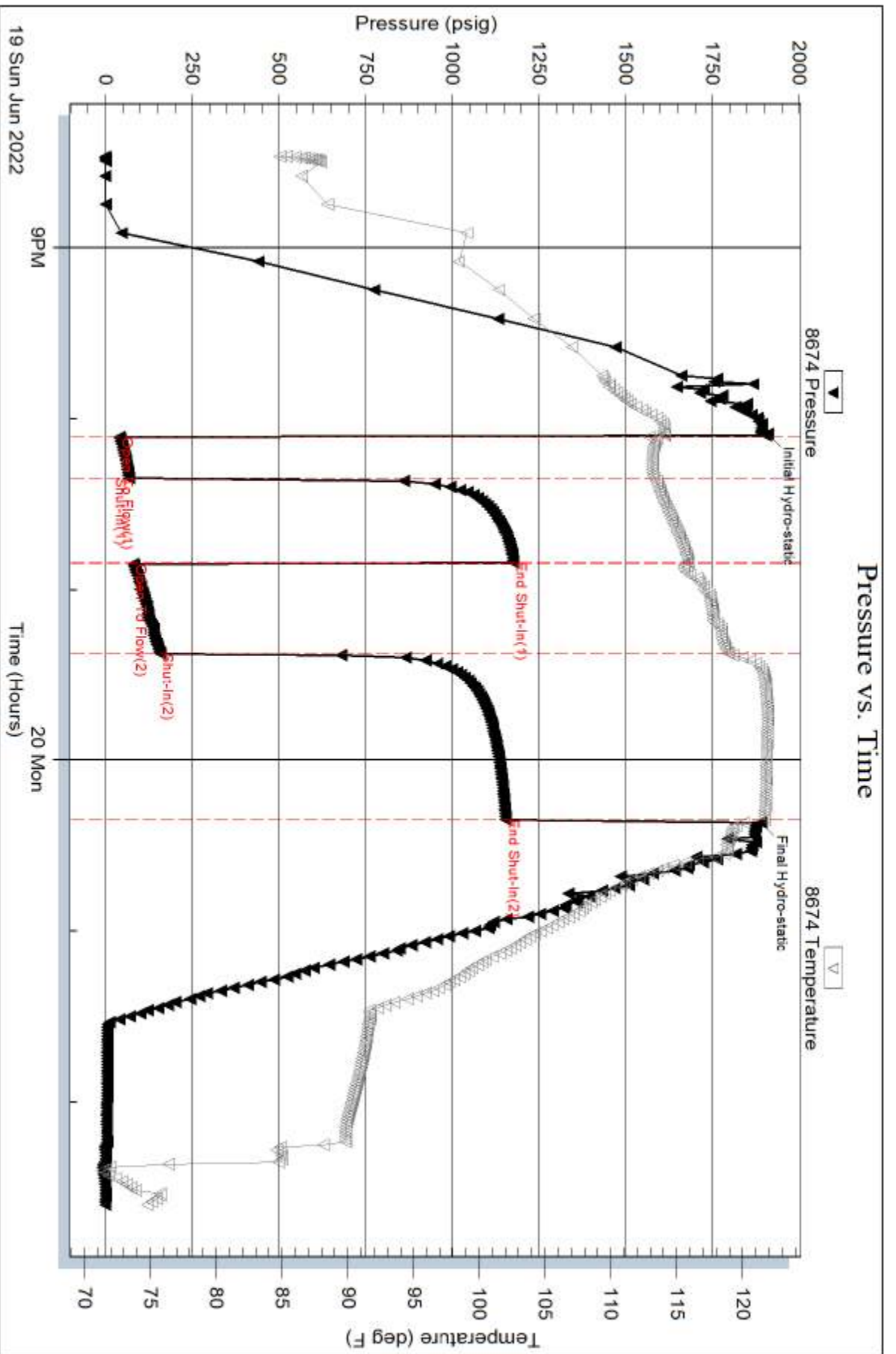
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .12@71=64000





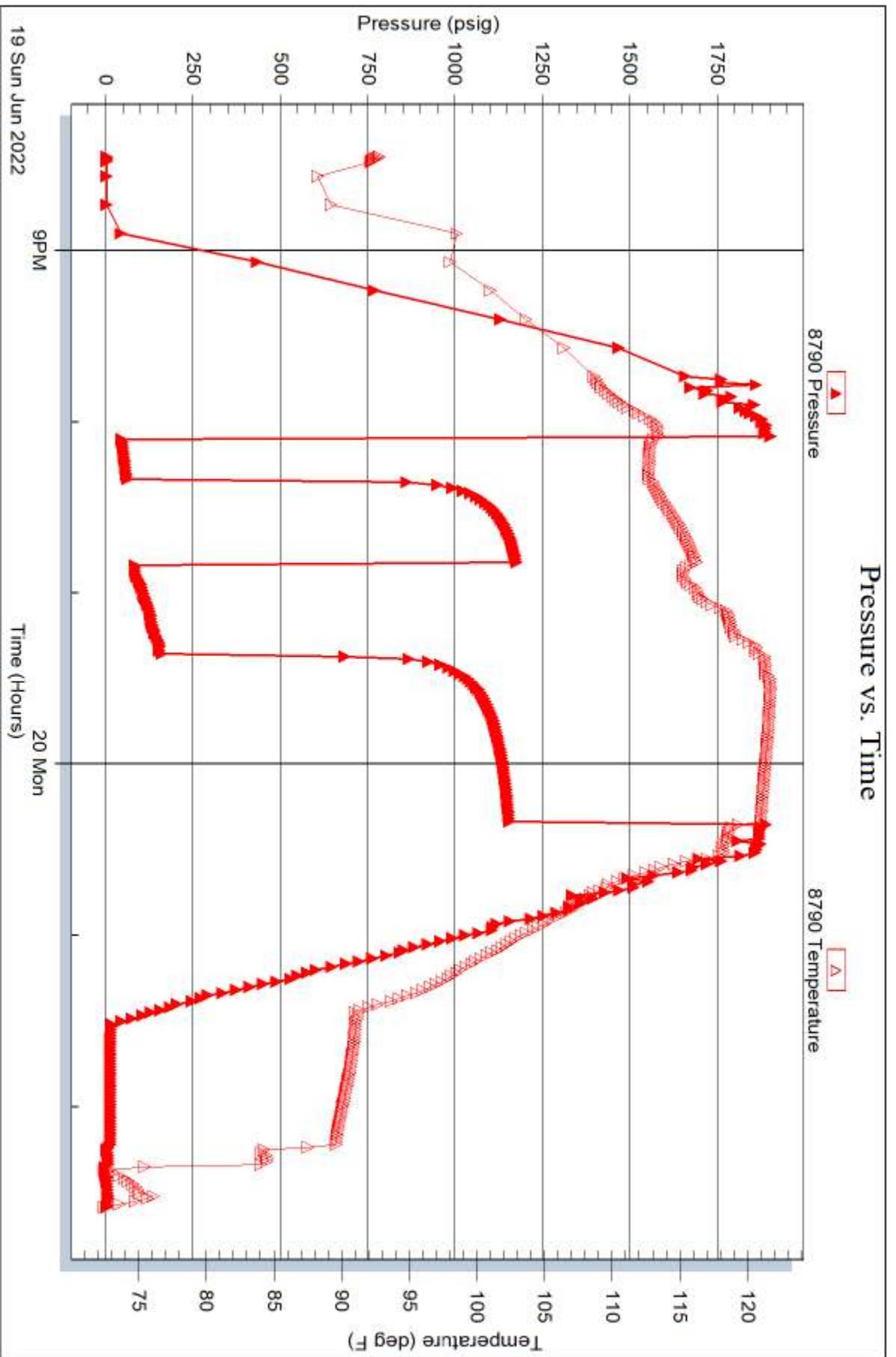
Serial #: 8790

Inside

Shakespeare Oil Company

Case 3-27

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 67978

Printed: 2022.06.20 @ 07:04:36



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Company

**27-11s-31w Gove Ks**

202 W Main St  
Salem, IL 62881

**Cale 3-27**

Job Ticket: 67979

**DST#: 2**

ATTN: Kent Matson

Test Start: 2022.06.20 @ 14:29:12

## GENERAL INFORMATION:

Formation: **Lansing B-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:04:42

Time Test Ended: 20:27:12

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

**Interval: 3980.00 ft (KB) To 4020.00 ft (KB) (TVD)**

Reference Elevations: 2930.00 ft (KB)

Total Depth: 4020.00 ft (KB) (TVD)

2919.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8674 Outside**

Press@RunDepth: 168.00 psig @ 3981.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.06.20 End Date: 2022.06.20

Last Calib.: 2022.06.20

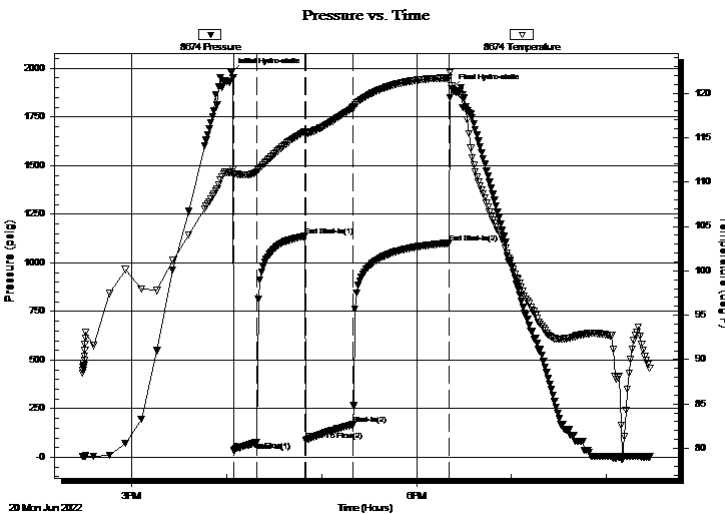
Start Time: 14:29:17 End Time: 20:27:11

Time On Btm: 2022.06.20 @ 16:03:12

Time Off Btm: 2022.06.20 @ 18:22:12

**TEST COMMENT:** IF: BOB in 12 mins. 12"  
IS: Surface blow built to 1/2.  
FF: BOB in 18 mins. 16"  
FS: Surface blow built to 3/4. 15-30-30-60

## PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1978.63         | 111.07       | Initial Hydro-static |
| 2           | 36.76           | 110.90       | Open To Flow (1)     |
| 16          | 78.95           | 111.12       | Shut-In(1)           |
| 47          | 1137.14         | 115.68       | End Shut-In(1)       |
| 47          | 88.79           | 115.39       | Open To Flow (2)     |
| 77          | 168.00          | 118.35       | Shut-In(2)           |
| 138         | 1101.73         | 121.73       | End Shut-In(2)       |
| 139         | 1896.30         | 120.81       | Final Hydro-static   |

## Recovery

| Length (ft) | Description    | Volume (bbl) |
|-------------|----------------|--------------|
| 126.00      | mcw 90%w 10%m  | 1.77         |
| 166.00      | w cm 20%w 80%m | 2.33         |
| 10.00       | oil 100%o      | 0.14         |
|             |                |              |
|             |                |              |

\* Recovery from multiple tests

## Gas Rates

|  | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|--|----------------|-----------------|------------------|
|  |                |                 |                  |





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shakespeare Oil Company

**27-11s-31w Gove Ks**

202 W Main St  
Salem, IL 62881

**Cale 3-27**

Job Ticket: 67979

**DST#: 2**

ATTN: Kent Matson

Test Start: 2022.06.20 @ 14:29:12

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

50000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

| Length<br>ft | Description    | Volume<br>bbl |
|--------------|----------------|---------------|
| 126.00       | mcw 90%w 10%m  | 1.767         |
| 166.00       | w cm 20%w 80%m | 2.329         |
| 10.00        | oil 100%o      | 0.140         |

Total Length: 302.00 ft      Total Volume: 4.236 bbl

Num Fluid Samples: 0

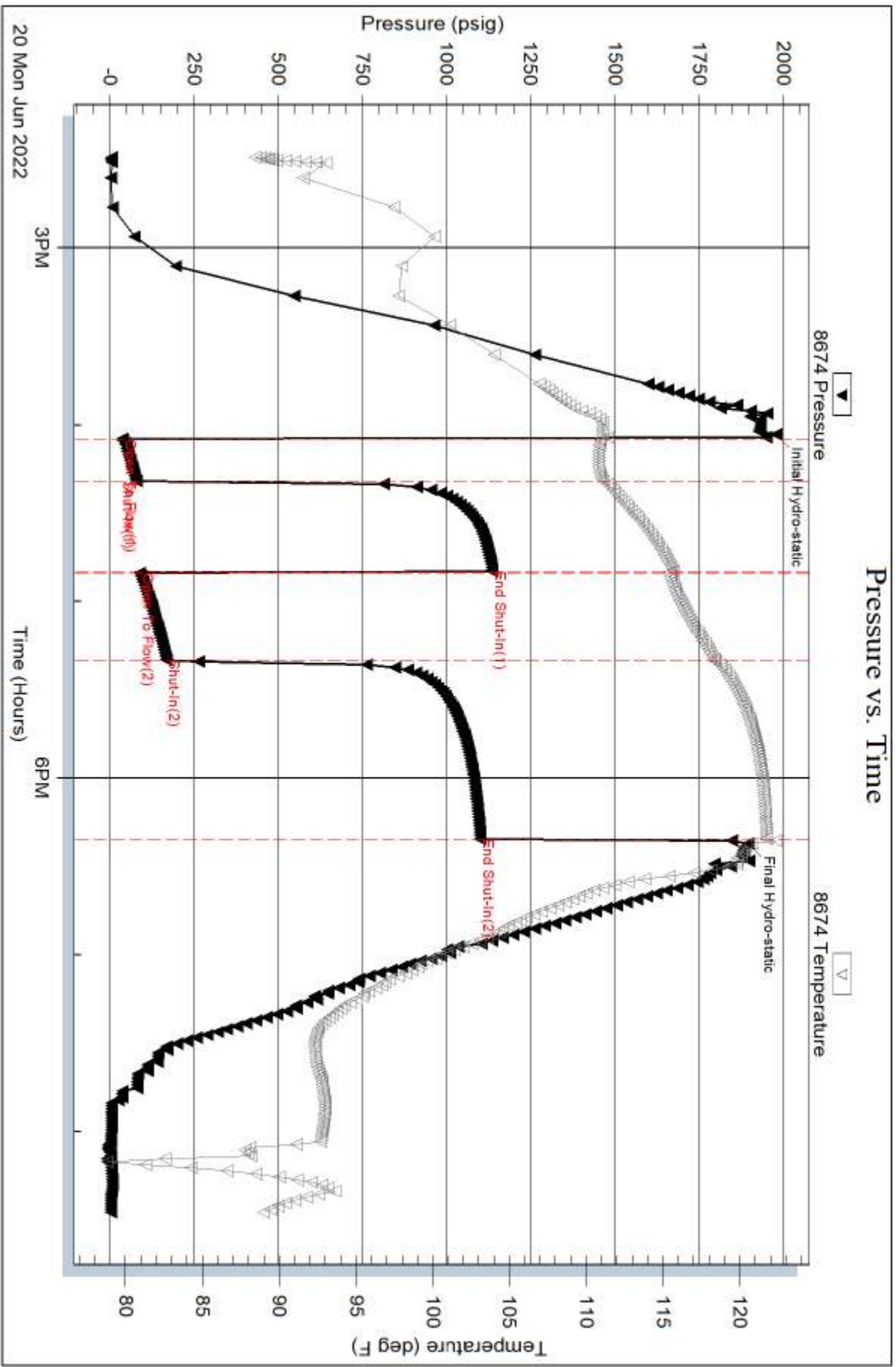
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .12@86=50000



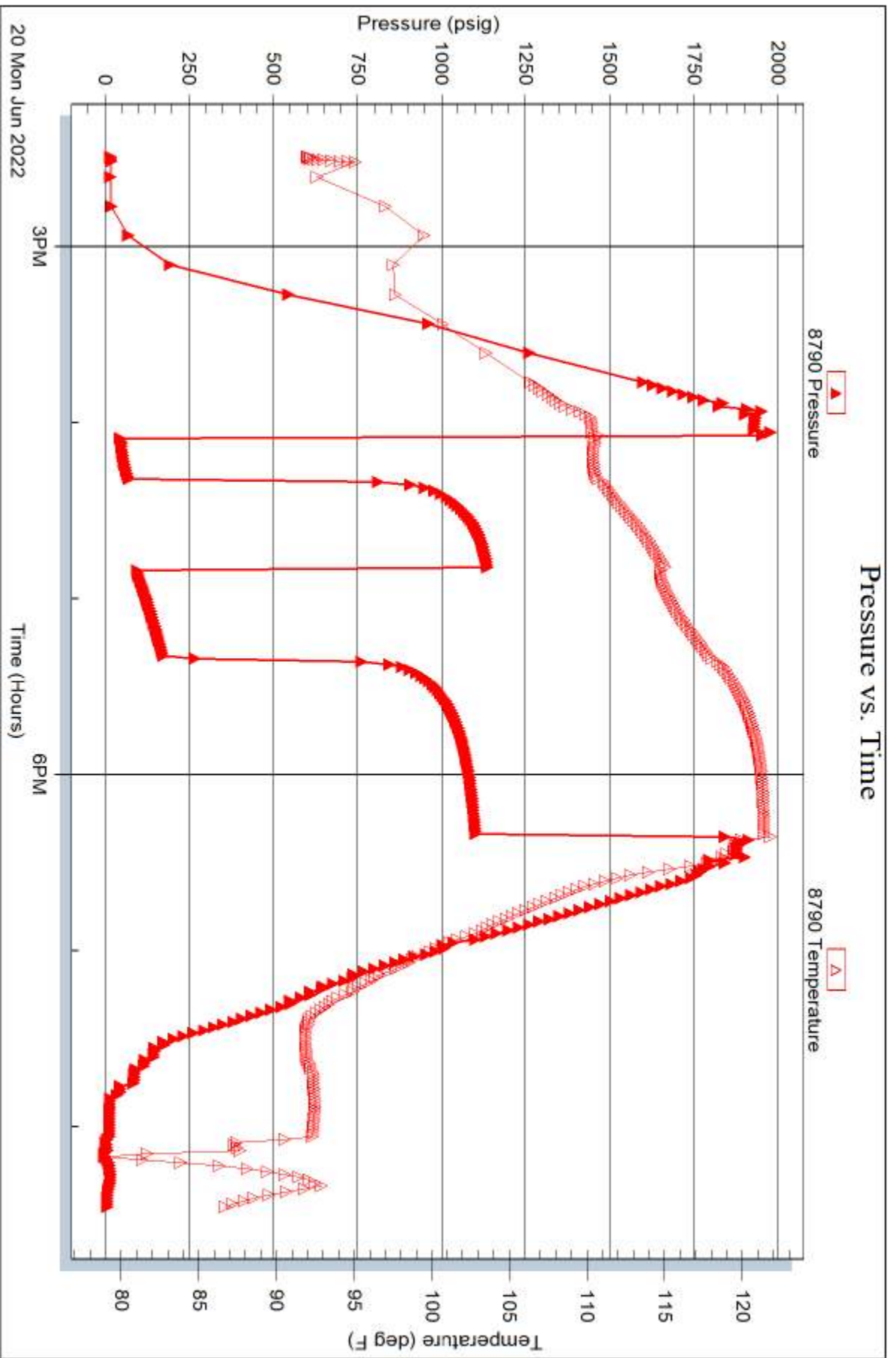
Serial #: 8790

Inside

Shakespeare Oil Company

Case 3-27

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 67979

Printed: 2022.06.20 @ 21:50:37



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil Company

**27-11s-31w Gove Ks**

202 W Main St  
Salem, IL 62881

**Cale 3-27**

ATTN: Kent Matson

Job Ticket: 67980

**DST#: 3**

Test Start: 2022.06.21 @ 04:52:45

## GENERAL INFORMATION:

Formation: **Lansing D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:14:15

Time Test Ended: 11:49:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

**Interval: 4024.00 ft (KB) To 4040.00 ft (KB) (TVD)**

Reference Elevations: 2930.00 ft (KB)

Total Depth: 4040.00 ft (KB) (TVD)

2919.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8674 Outside**

Press@RunDepth: 53.64 psig @ 4025.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.06.21

End Date:

2022.06.21

Last Calib.:

2022.06.21

Start Time: 04:52:50

End Time:

11:49:44

Time On Btm:

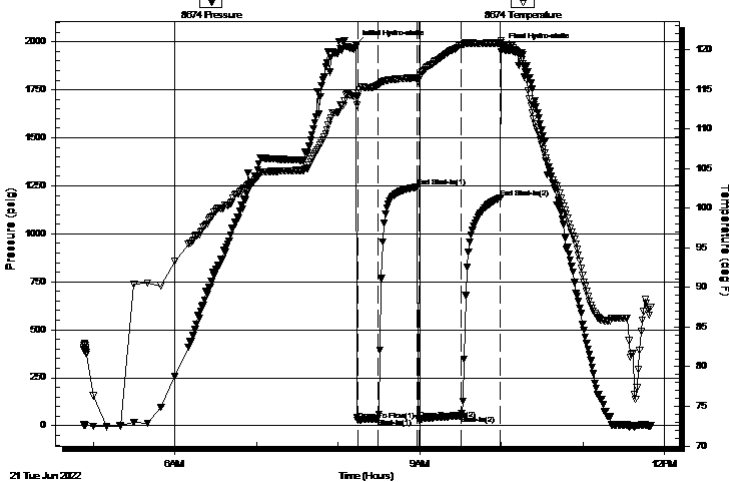
2022.06.21 @ 08:13:15

Time Off Btm:

2022.06.21 @ 10:00:15

TEST COMMENT: IF: 1/4 blow built to 1 1/2.  
IS: No return.  
FF: Surface blow built to 2.  
FS: No return. 15-30-30-60

Pressure vs. Time



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1983.01         | 114.19       | Initial Hydro-static |
| 1           | 29.82           | 114.03       | Open To Flow (1)     |
| 16          | 36.96           | 115.54       | Shut-In(1)           |
| 45          | 1244.08         | 116.47       | End Shut-In(1)       |
| 46          | 35.62           | 116.25       | Open To Flow (2)     |
| 77          | 53.64           | 120.65       | Shut-In(2)           |
| 106         | 1185.45         | 120.81       | End Shut-In(2)       |
| 107         | 1971.33         | 120.62       | Final Hydro-static   |

## Recovery

| Length (ft) | Description              | Volume (bbl) |
|-------------|--------------------------|--------------|
| 50.00       | w cm oil spots 30%w 70%m | 0.70         |
|             |                          |              |
|             |                          |              |
|             |                          |              |
|             |                          |              |

\* Recovery from multiple tests

## Gas Rates

|  | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|--|----------------|-----------------|------------------|
|  |                |                 |                  |







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Company

**27-11s-31w Gove Ks**

202 W Main St  
Salem, IL 62881

**Cale 3-27**

Job Ticket: 67980

**DST#: 3**

ATTN: Kent Matson

Test Start: 2022.06.21 @ 04:52:45

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

26000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

| Length<br>ft | Description              | Volume<br>bbl |
|--------------|--------------------------|---------------|
| 50.00        | w cm oil spots 30%w 70%m | 0.701         |

Total Length: 50.00 ft      Total Volume: 0.701 bbl

Num Fluid Samples: 0

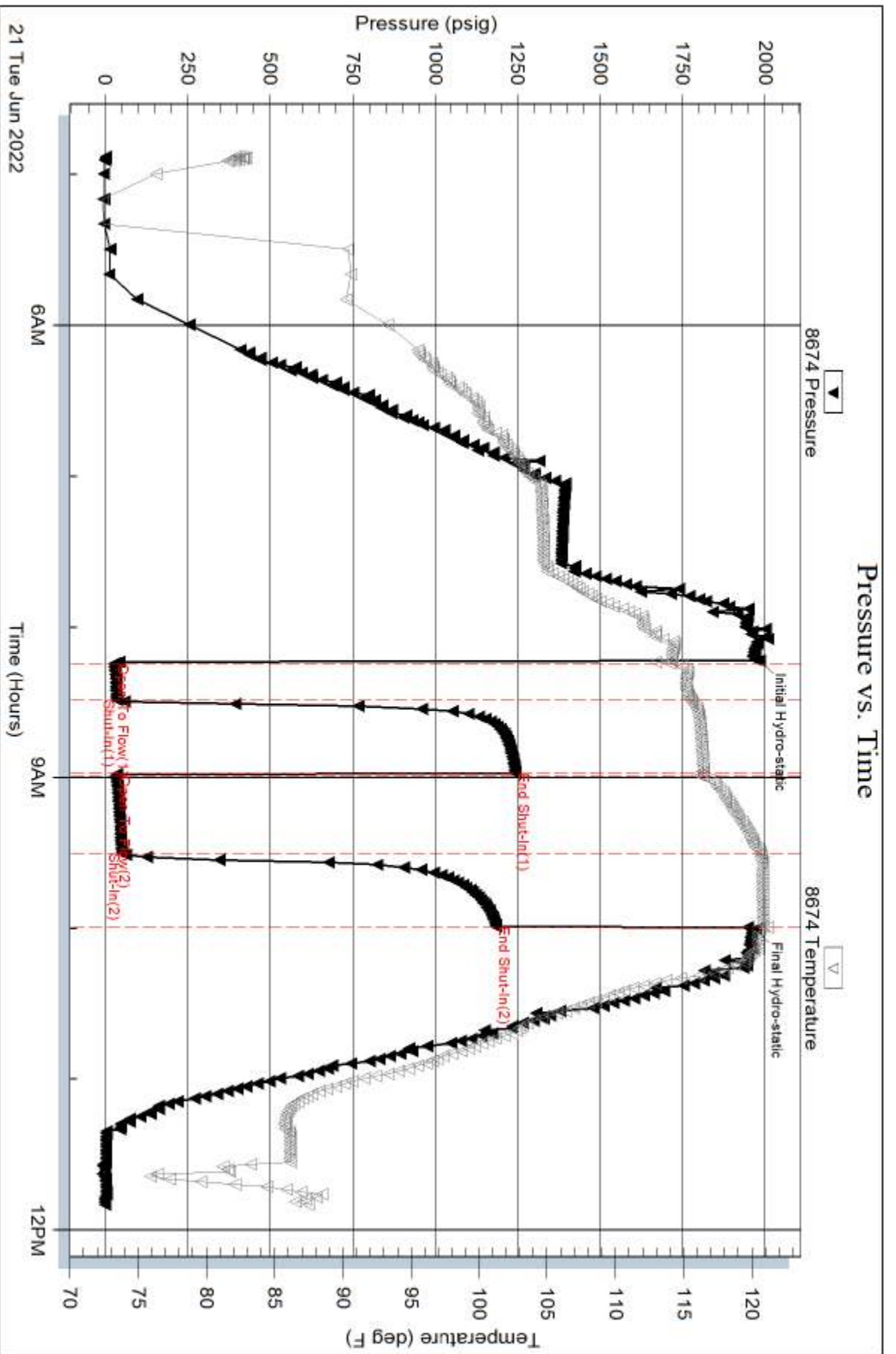
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .25@75=26000



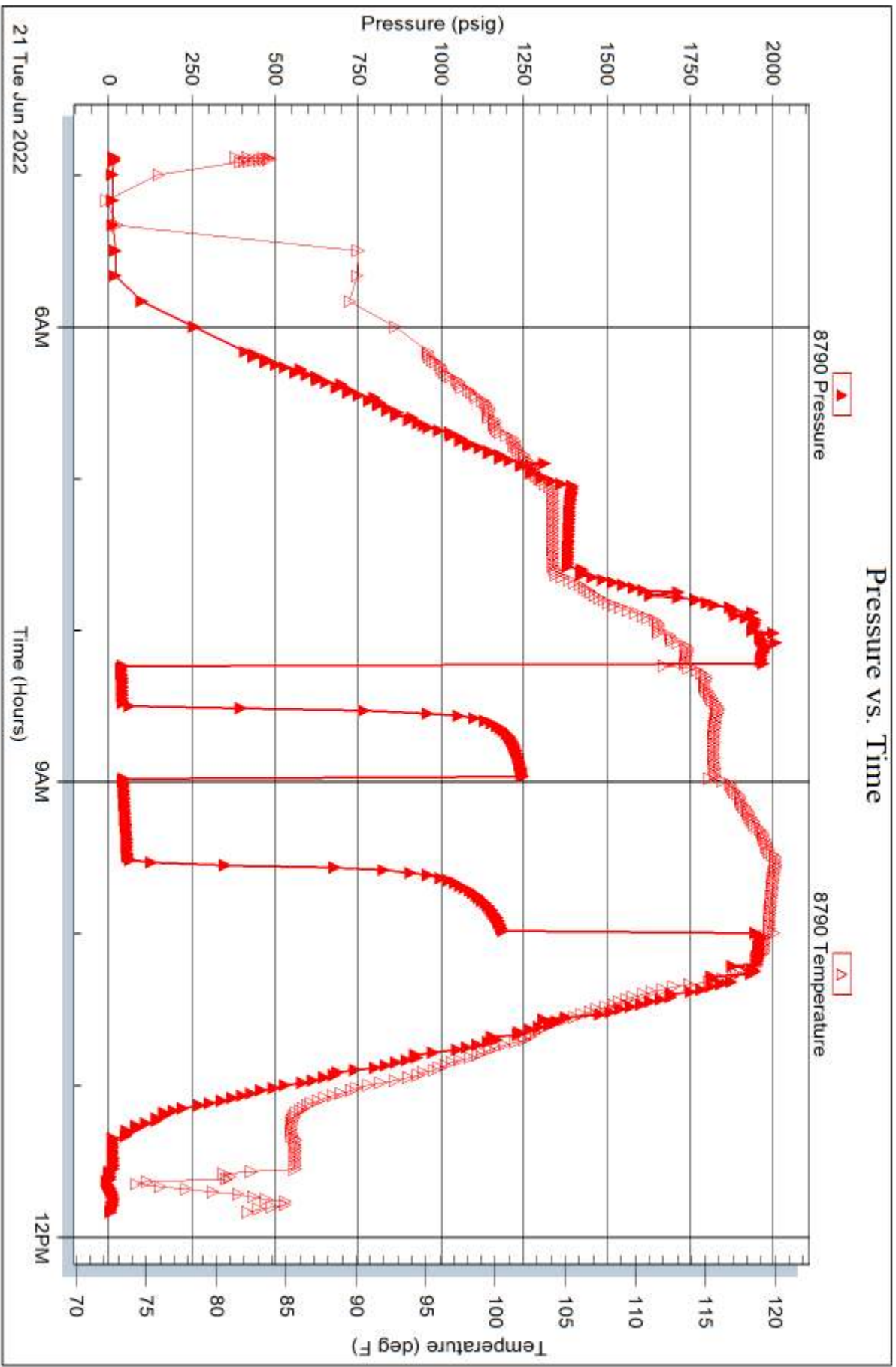
Serial #: 8790

Inside

Shakespeare Oil Company

Case 3-27

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 67980

Printed: 2022.06.21 @ 15:36:12



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Company

**27-11s-31w Gove Ks**

202 W Main St  
Salem, IL 62881

**Cale 3-27**

Job Ticket: 67981

**DST#: 4**

ATTN: Kent Matson

Test Start: 2022.06.22 @ 04:28:32

## GENERAL INFORMATION:

Formation: **Lansing G-H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:42:02

Time Test Ended: 10:24:02

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

**Interval: 4090.00 ft (KB) To 4130.00 ft (KB) (TVD)**

Reference Elevations: 2930.00 ft (KB)

Total Depth: 4130.00 ft (KB) (TVD)

2919.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8674 Outside**

Press@RunDepth: 60.99 psig @ 4091.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.06.22 End Date: 2022.06.22

Last Calib.: 2022.06.22

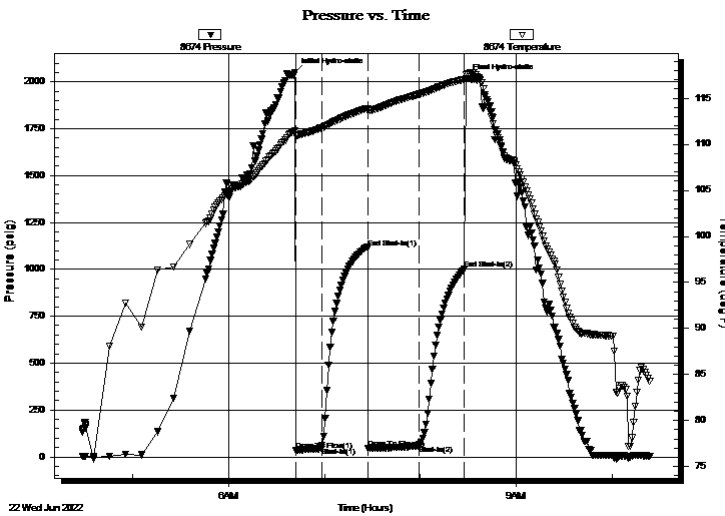
Start Time: 04:28:37 End Time: 10:24:01

Time On Btm: 2022.06.22 @ 06:41:32

Time Off Btm: 2022.06.22 @ 08:28:32

**TEST COMMENT:** IF: Surface blow built to 1 3/4.  
IS: No return.  
FF: Surface blow built to 3.  
FS: No return. 15-30-30-30

## PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2050.28         | 111.47       | Initial Hydro-static |
| 1           | 34.95           | 110.89       | Open To Flow (1)     |
| 17          | 51.83           | 111.77       | Shut-In(1)           |
| 46          | 1113.65         | 113.91       | End Shut-In(1)       |
| 46          | 46.67           | 113.62       | Open To Flow (2)     |
| 78          | 60.99           | 115.42       | Shut-In(2)           |
| 106         | 999.61          | 117.05       | End Shut-In(2)       |
| 107         | 2017.81         | 117.53       | Final Hydro-static   |

## Recovery

| Length (ft) | Description  | Volume (bbl) |
|-------------|--------------|--------------|
| 50.00       | ocm 5%o 95%m | 0.70         |
| 0.00        | 63 GIP       | 0.00         |
|             |              |              |
|             |              |              |
|             |              |              |

\* Recovery from multiple tests

## Gas Rates

|  | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|--|----------------|-----------------|------------------|
|  |                |                 |                  |





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shakespeare Oil Company

**27-11s-31w Gove Ks**

202 W Main St  
Salem, IL 62881

**Cale 3-27**

Job Ticket: 67981

**DST#: 4**

ATTN: Kent Matson

Test Start: 2022.06.22 @ 04:28:32

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

| Length<br>ft | Description  | Volume<br>bbbl |
|--------------|--------------|----------------|
| 50.00        | ocm 5%o 95%m | 0.701          |
| 0.00         | 63 GIP       | 0.000          |

Total Length: 50.00 ft      Total Volume: 0.701 bbl

Num Fluid Samples: 0

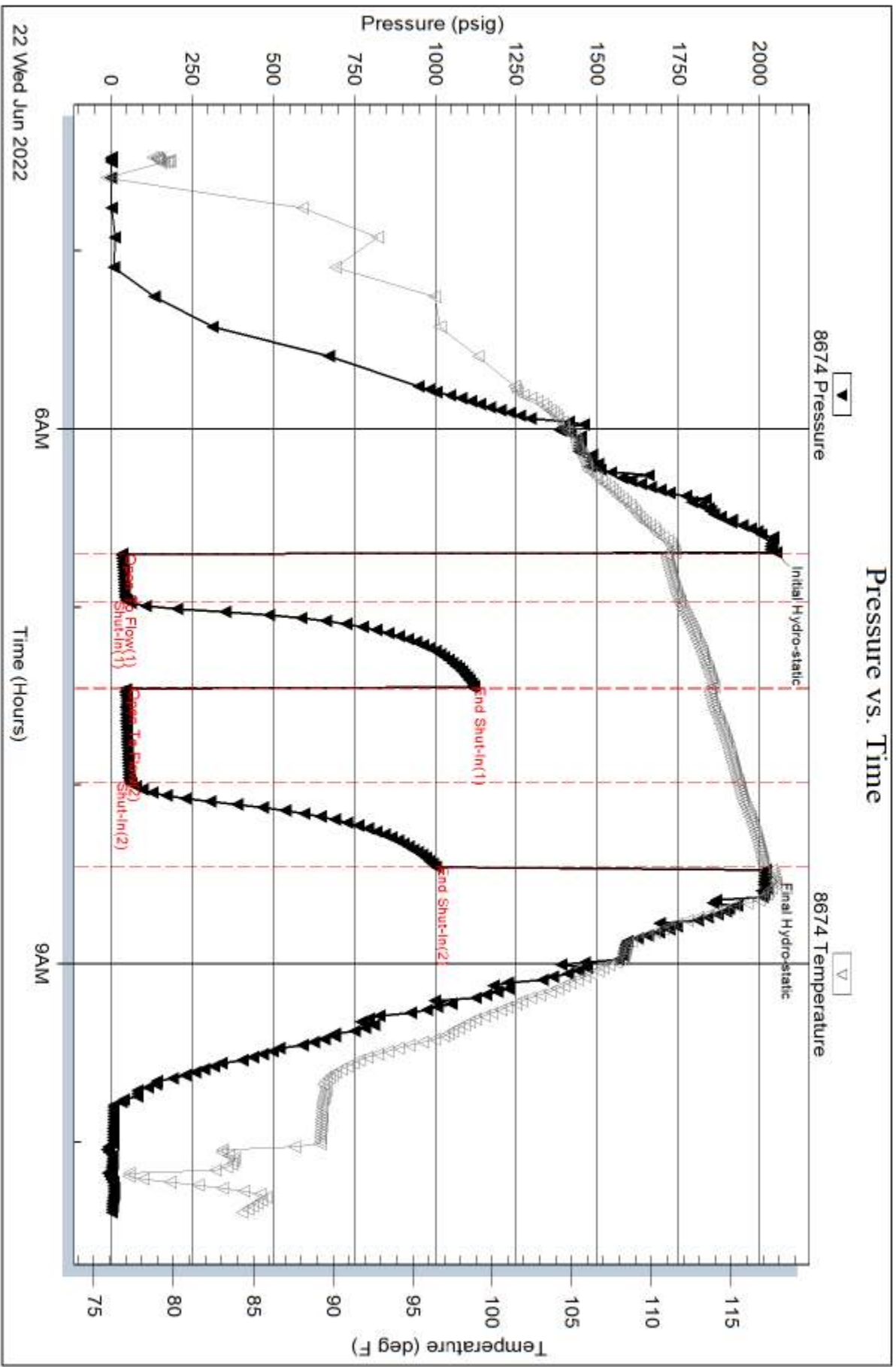
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



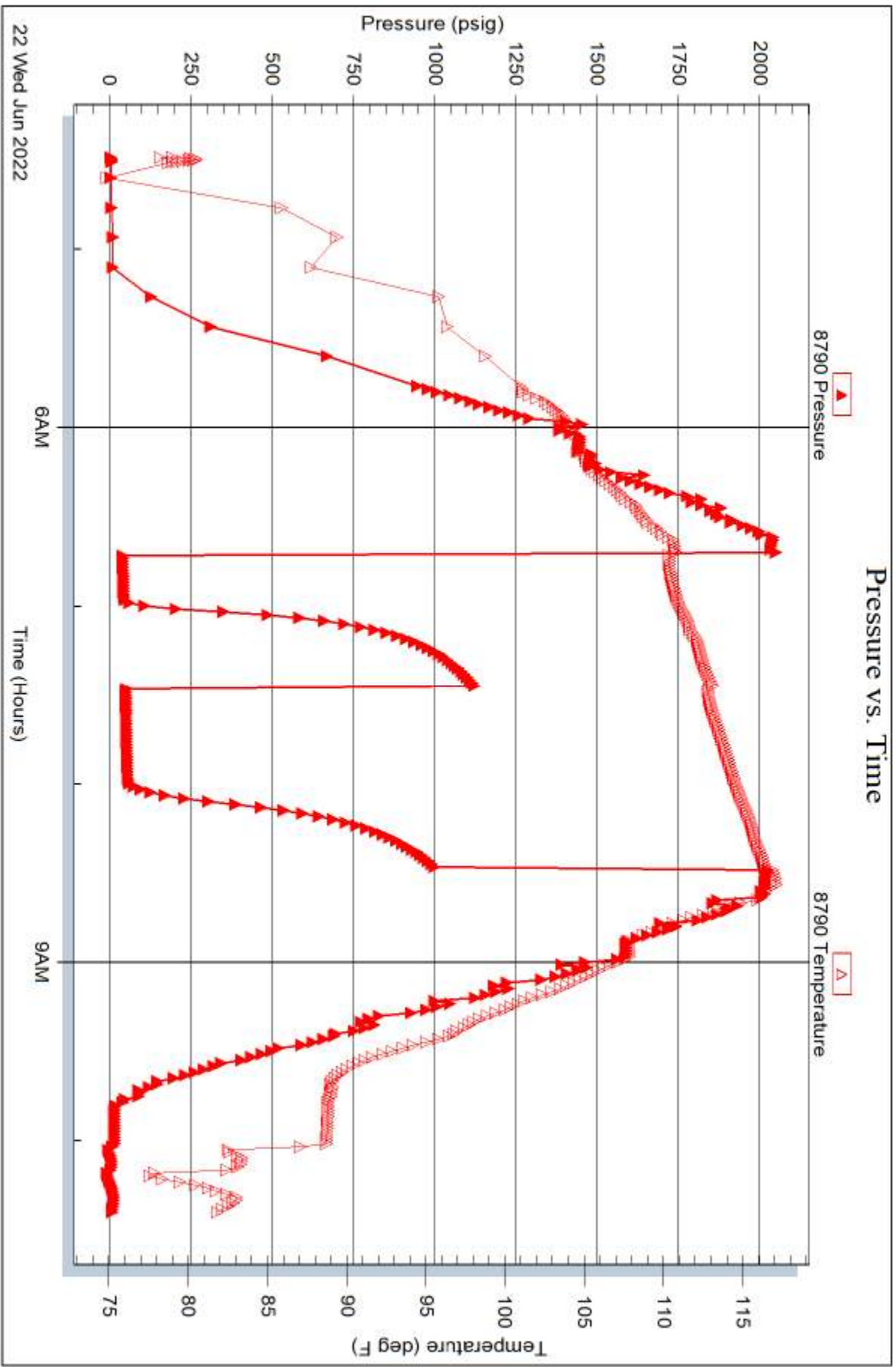
Serial #: 8790

Inside

Shakespeare Oil Company

Case 3-27

DST Test Number: 4







**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil Company

**27-11s-31w Gove Ks**

202 W Main St  
Salem, IL 62881

**Cale 3-27**

ATTN: Kent Matson

Job Ticket: 67982

**DST#: 5**

Test Start: 2022.06.22 @ 21:20:53

## GENERAL INFORMATION:

Formation: **Lansing I-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:36:53

Time Test Ended: 03:34:53

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

**Interval: 4132.00 ft (KB) To 4185.00 ft (KB) (TVD)**

Reference Elevations: 2930.00 ft (KB)

Total Depth: 4185.00 ft (KB) (TVD)

2919.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8674 Outside**

Press@RunDepth: 31.68 psig @ 4133.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.06.22

End Date:

2022.06.23

Last Calib.: 2022.06.23

Start Time: 21:20:58

End Time:

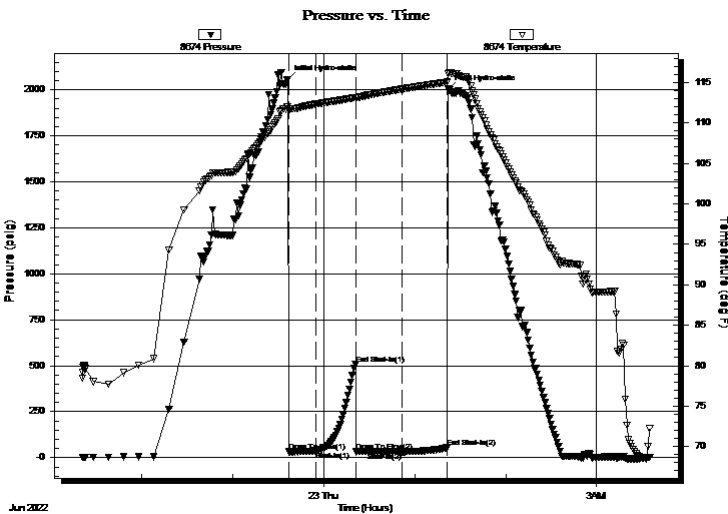
03:34:52

Time On Btm: 2022.06.22 @ 23:36:23

Time Off Btm: 2022.06.23 @ 01:21:53

**TEST COMMENT:** IF: 1/4 blow built to 1/2.  
IS: No return.  
FF: Surface blow built to 1/4.  
FS: No return. 15-30-30-30

## PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2054.21         | 112.03       | Initial Hydro-static |
| 1           | 32.50           | 111.50       | Open To Flow (1)     |
| 18          | 36.60           | 112.31       | Shut-In(1)           |
| 45          | 509.17          | 113.14       | End Shut-In(1)       |
| 45          | 32.52           | 113.09       | Open To Flow (2)     |
| 75          | 31.68           | 114.18       | Shut-In(2)           |
| 105         | 54.70           | 115.04       | End Shut-In(2)       |
| 106         | 2002.89         | 116.09       | Final Hydro-static   |

## Recovery

| Length (ft) | Description         | Volume (bbl) |
|-------------|---------------------|--------------|
| 10.00       | mud oil spots 100%m | 0.14         |
|             |                     |              |
|             |                     |              |
|             |                     |              |
|             |                     |              |

\* Recovery from multiple tests

## Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
|                |                 |                  |





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Company

**27-11s-31w Gove Ks**

202 W Main St  
Salem, IL 62881

**Cale 3-27**

Job Ticket: 67982

**DST#: 5**

ATTN: Kent Matson

Test Start: 2022.06.22 @ 21:20:53

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

| Length<br>ft | Description         | Volume<br>bbl |
|--------------|---------------------|---------------|
| 10.00        | mud oil spots 100%m | 0.140         |

Total Length: 10.00 ft      Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

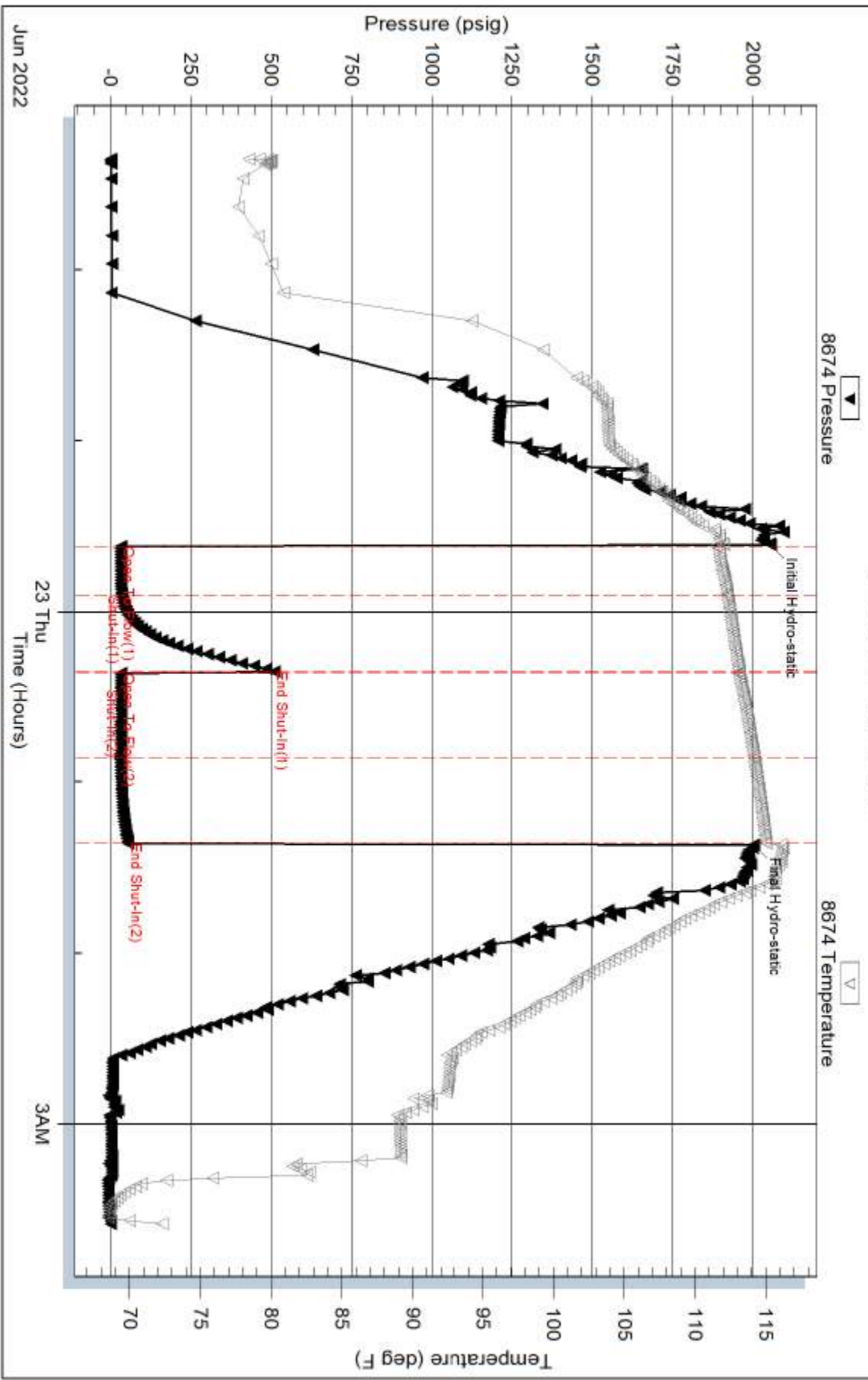
Serial #: 8674

Outside Shakespeare Oil Company

Case 3-27

DST Test Number: 5

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 67982

Printed: 2022.06.23 @ 06:27:45

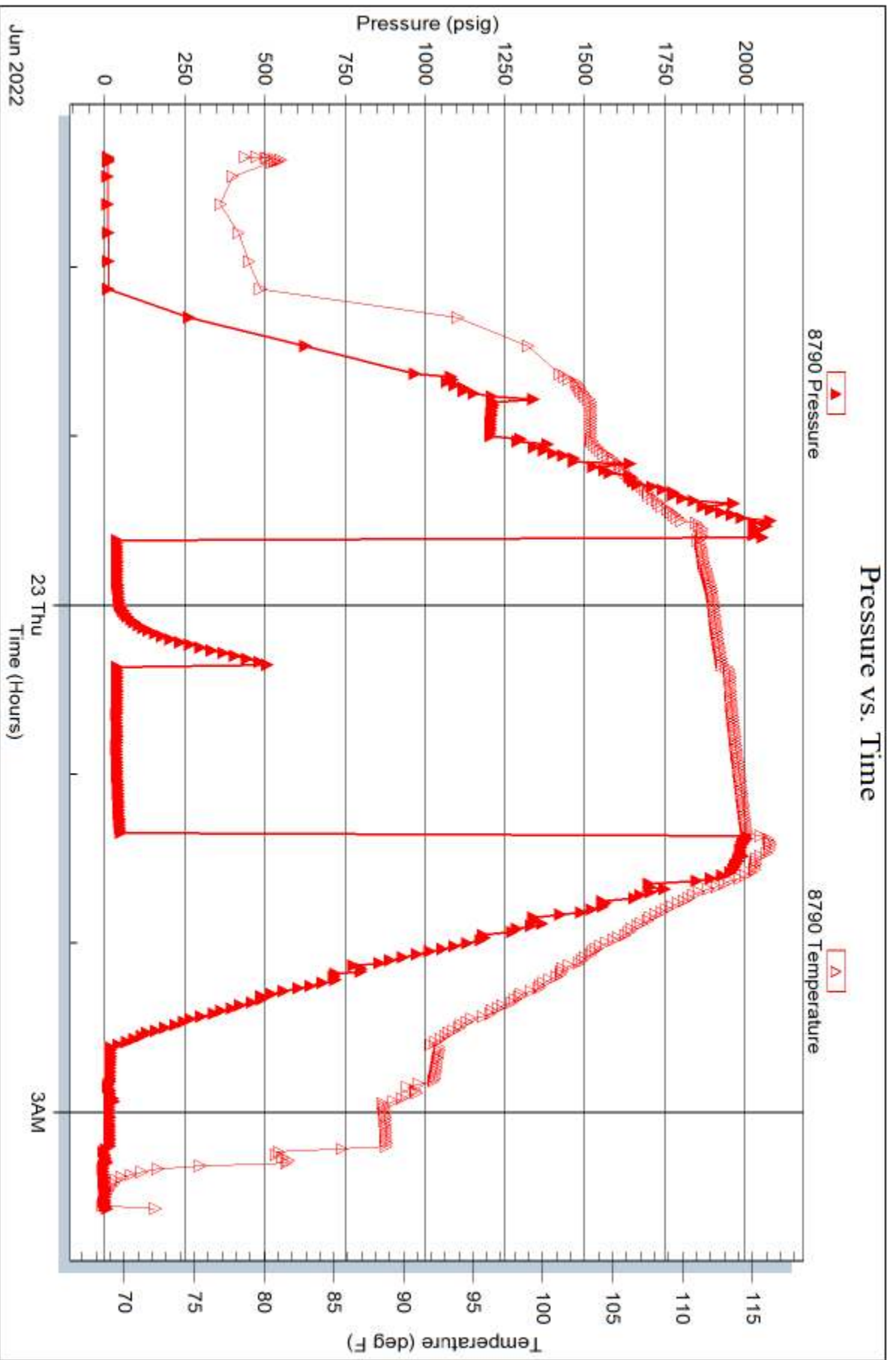
Serial #: 8790

Inside

Shakespeare Oil Company

Case 3-27

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 67982

Printed: 2022.06.23 @ 06:27:45



**Scale 1:240 (5"=100') Imperial  
Measured Depth Log**

**Well Name:** CALE  
**Well Id:** #3-27  
**Location:** 1940' FNL, 1965' FEL, NE/4 Sec 27-T11S-R31W, Gove County, Kansas  
**License Number:** API: 15-063-22412 **Region:** Gove County  
**Spud Date:** 06/15/2022 **Drilling Completed:** 06/25/2022  
**Surface Coordinates:** NAD83  
**Lat:** 39.0709149, **Long:** -100.746416  
**Bottom Hole Vertical hole**  
**Coordinates:**  
**Ground Elevation (ft):** 2919' **K.B. Elevation (ft):** 2930'  
**Logged Interval (ft):** 3750' **To:** RTD **Total Depth (ft):** 4600'  
**Formation:** Mississippian at RTD  
**Type of Drilling Fluid:** Chemical

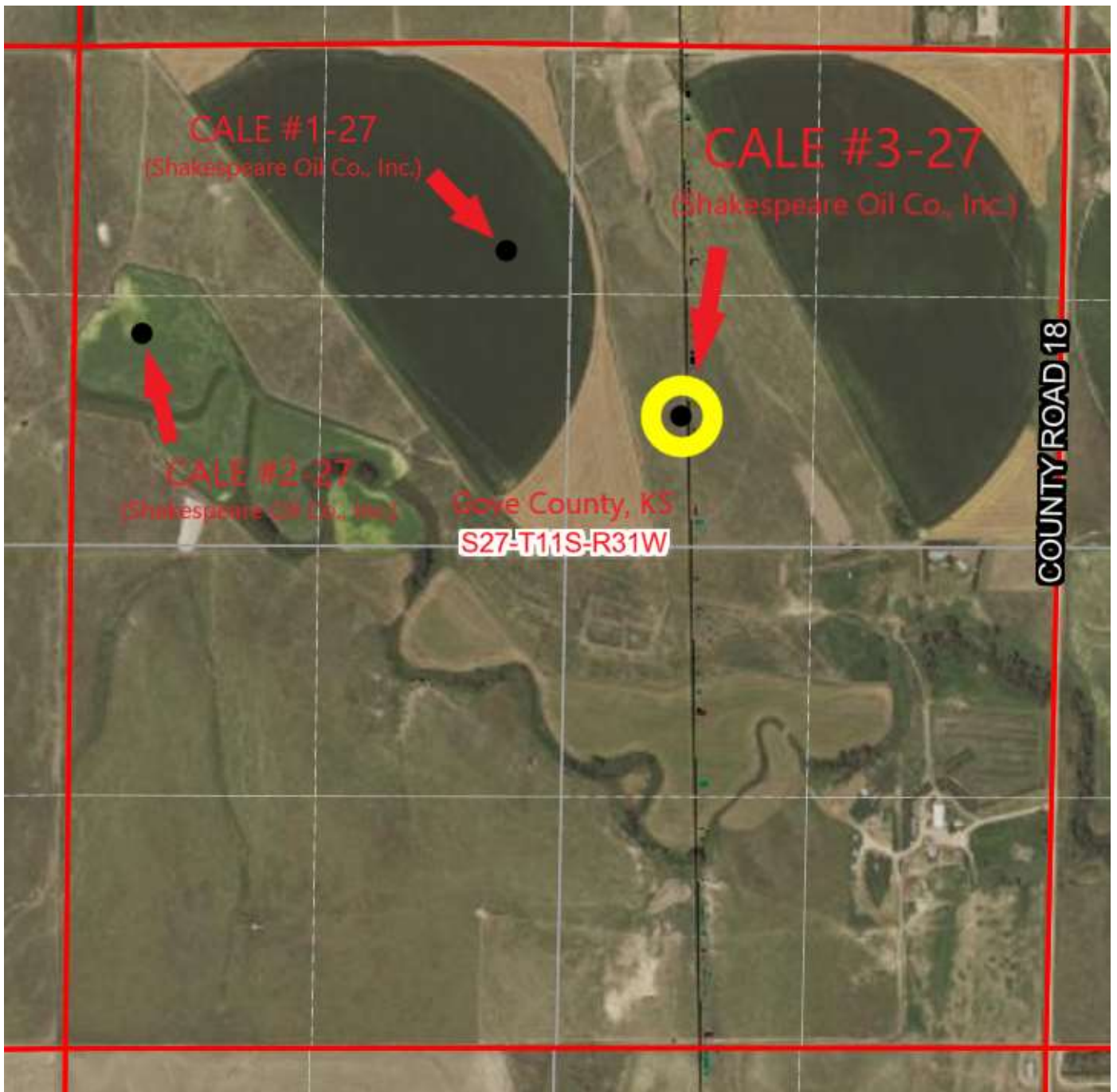
Printed by MudLog from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

**OPERATOR**

**Company:** SHAKESPEARE OIL COMPANY, INC.  
**Address:** 202 West Main Street  
Salem, IL 62881  
618-548-1585

**WELLSITE GEOLOGIST**

**Name:** Kent R. Matson  
**Company:** Matson Geological Services, LLC  
**Address:** 33300 W. 15th Street S.  
Garden Plain, Kansas 67050  
316-644-1975; [kent4m@hotmail.com](mailto:kent4m@hotmail.com)



#### COMMENTS

Shakespeare Oil Company, Inc., Geologist: Toby Eck, 316-305-0572 (cell).

Contractor: Duke Drilling Company, Inc.: Rig #4.

Tool Pusher: Hector Torres, 620-682-3927 (cell).

Surface Casing: 8 5/8" set at 266' (KB) w/170sx cement.

Production Casing: Based on field observations of drill cuttings, DST results and electric log evaluation, 5.5" casing was installed and the well was completed as a salt water disposal (SWD) well in the Cedar Hills formation.

Mud by: Mud-Co/Service Mud, Inc., Reid Atkins, 785-694-3741 (cell).

DST's by: Trilobite Testing, Brandon Turley, 785-650-8399 (cell).

Logs by: ELI Wireline (DI w/GR, CND, Micro), Jeff Luebbers, 785-735-7112 (office).

RTD= 4600'

LTD= 4598'



## FORMATION TOPS

| FORMATION          | SAMPLE TOPS |       | LOG TOPS |       |
|--------------------|-------------|-------|----------|-------|
|                    | Depth       | Datum | Depth    | Datum |
| Oread              | 3874'       | -944  | 3872'    | -942  |
| Heebner Shale      | 3920'       | -990  | 3917'    | -987  |
| Lansing            | 3953'       | -1023 | 3950'    | -1020 |
| Muncie Creek Shale | 4101'       | -1171 | 4099'    | -1169 |
| Stark Shale        | 4183'       | -1253 | 4180'    | -1250 |
| Hushpuckney Shale  | 4220'       | -1290 | 4216'    | -1286 |
| Base of KC         | 4246'       | -1316 | 4242'    | -1312 |
| Marmaton           | 4296'       | -1366 | 4293'    | -1363 |
| Pawnee             | 4372'       | -1442 | 4369'    | -1439 |
| Myrick Station     | 4418'       | -1488 | 4414'    | -1484 |
| Fort Scott         | 4440'       | -1510 | 4436'    | -1506 |
| Cherokee Shale     | 4468'       | -1538 | 4464     | -1534 |
| Johnson            | 4508'       | -1578 | 4507'    | -1577 |
| Mississippian      | 4544'       | -1614 | 4542'    | -1612 |
| RTD                | 4600'       | -1670 |          |       |
| LTD                |             |       | 4598'    | -1668 |

## ROCK TYPES

### LITHOLOGY

|  |           |
|--|-----------|
|  | Anhy      |
|  | Cht       |
|  | Coal      |
|  | Congl     |
|  | Dol       |
|  | Gyp       |
|  | Lmst      |
|  | Salt      |
|  | Shale     |
|  | Shcol     |
|  | Shgy      |
|  | Sltst     |
|  | Ss        |
|  | Carb sh   |
|  | Dol       |
|  | Dtd       |
|  | Gry sh    |
|  | Sandy lms |
|  | Shale     |
|  | Sltstn    |
|  | Shlyslts  |

|  |            |
|--|------------|
|  | Sitysh     |
|  | Sdy dolo   |
|  | Silty dolo |
|  | Shy dolo   |
|  | Shaly ls   |

### FOSSIL

|  |         |
|--|---------|
|  | Algae   |
|  | Amph    |
|  | Belm    |
|  | Bioclst |
|  | Brach   |
|  | Bryozoa |
|  | Cephal  |
|  | Coral   |
|  | Crin    |
|  | Echin   |
|  | Fish    |
|  | Foram   |
|  | Fossil  |
|  | Gastro  |
|  | Oolite  |

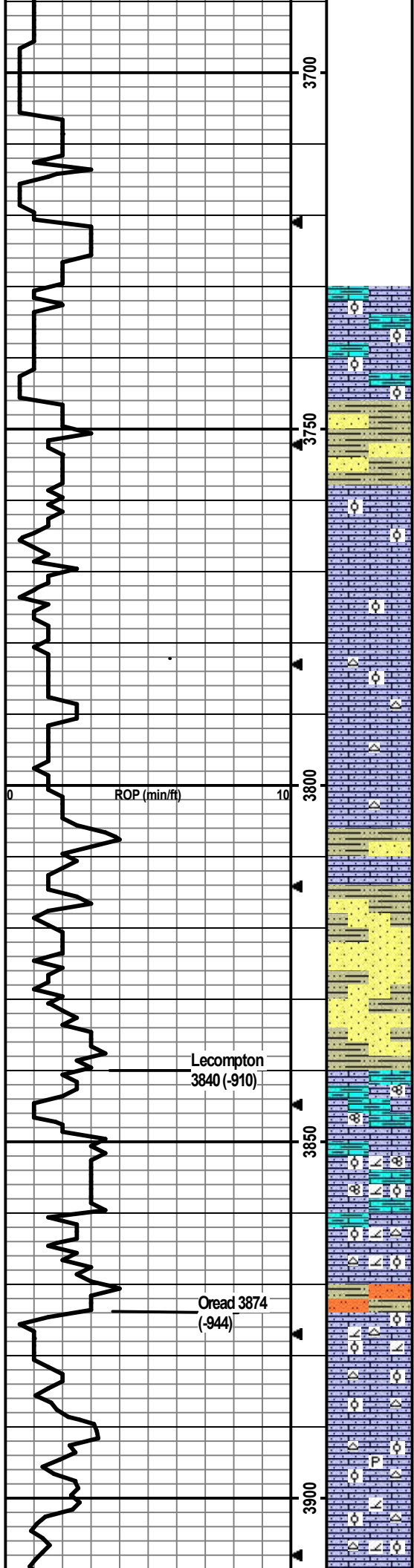
### MINERAL

|  |          |
|--|----------|
|  | Ostra    |
|  | Pelec    |
|  | Pellet   |
|  | Pisolite |
|  | Plant    |
|  | Strom    |
|  | Fuss     |
|  | Oomold   |
|  | Anhy     |
|  | Arggrn   |
|  | Arg      |
|  | Bent     |
|  | Bit      |
|  | Brecfrag |
|  | Calc     |
|  | Carb     |
|  | Chtdk    |
|  | Chtlt    |
|  | Dol      |
|  | Feldspar |

|  |          |
|--|----------|
|  | Ferrpel  |
|  | Ferr     |
|  | Glau     |
|  | Gyp      |
|  | Hvymn    |
|  | Kaol     |
|  | Marl     |
|  | Minxl    |
|  | Nodule   |
|  | Phos     |
|  | Pyr      |
|  | Salt     |
|  | Sandy    |
|  | Silt     |
|  | Sil      |
|  | Sulphur  |
|  | Tuff     |
|  | Chlorite |
|  | Dol      |
|  | Sand     |
|  | Sly      |



| Rate of Penetration (ROP)<br>ROP (min/ft) | DEPTH   | Lithology | CFS Point | Oil Shows | Geological Descriptions  | Remarks  |
|---|---|-----------|-----------|-----------|--|--|
|   | <p>35</p> <p>3550</p> <p>3600</p> <p>3650</p> |           |           |           | <p><b>Morning Report Depth/Activity (7:00 am)</b></p> <p>06/14/2022: MIRU.<br/> 06/15: Spud, set surface casing @ 266' KB.<br/> 06/16: Drilling @ 1063'.<br/> 06/17: Drilling @ 2476'.<br/> 06/18: Made Bit Trip at 2953' for damaged bit, waiting on new PDC bit.<br/> 06/19: Drilling @ 3757'.<br/> 06/20: Drilling @ 3977'.<br/> 06/21: TIH w/tool for DST #3 @ 4040'.<br/> 06/22: DST #4 @ 4130'.<br/> 06/23: CTCH after DST #5 @ 4185'.<br/> 06/24: Drilling @ 4372'.<br/> 06/25: Drilling @ 4490'. TD @ 4600', Electric logged.</p> <p><b>Anhydrite: Top @ 2443' (+487), Base @ 2484' (+446)</b><br/> (based on drill time). E-Log Top @ 2440' (+490), Base @ 2466' (+464).</p> <p><b>ROP Data begins @ 3550' on 06/18/2022. Recorded from drillers geolograph record, and geologist's auto-reader switch on geolograph.</b></p> <p>Geologist on location @ 3867', 06/19/2022.</p> | <p>Mud-Co/Service Mud Inc. Check #1 @ 0' 06/14/22, predrilling instructions.</p> <p>Mud-Co/Service Mud Inc. Check #2 @ 1066' 06/16/22 07:30am<br/> wt vis pH chl<br/> 8.6 27 9 130<br/> Filt LCM<br/> n/c 0</p> <p>Mud-Co/Service Mud Inc. Check #3 @ 2525' 06/17/22 09:00am<br/> wt vis pH chl<br/> 8.9 29 7 2000<br/> Filt LCM<br/> n/c 0</p> <p>Mud-Co/Service Mud Inc. Check #4 @ 2965' 06/18/22 10:00am<br/> wt vis pH chl<br/> 9.2 29 7 30000<br/> Filt LCM<br/> n/c 0</p> <p><b>Displaced drilling mud @ 3490'.</b></p> <p>Mud-Co/Service Mud Inc. Check #5 @ 3792' 06/19/22 08:00am<br/> wt vis pH chl<br/> 9.0 48 11 1500<br/> Filt LCM<br/> 7.2 1</p> <p>Mud-Co/Service Mud Inc. Check #6 @ 4000' 06/20/22 07:30am<br/> wt vis pH chl<br/> 8.8 56 11 1800<br/> Filt LCM<br/> 7.2 1</p> <p>Mud-Co/Service Mud Inc. Check #7 @ 4040' 06/21/22 10:20am<br/> wt vis pH chl<br/> 9.3 55 11 3000<br/> Filt LCM<br/> 8.8 1</p> <p>Mud-Co/Service Mud Inc. Check #8 @ 4130' 06/22/22 11:30am<br/> wt vis pH chl<br/> 9.1 64 9.5 3400<br/> Filt LCM<br/> 9.6 1</p> <p>Mud-Co/Service Mud Inc. Check #9 @ 4233' 06/23/22 01:30pm<br/> wt vis pH chl<br/> 9.2 61 10.5 2500<br/> Filt LCM<br/> 8.0 1</p> <p>Mud-Co/Service Mud Inc. Check #10 @ 4365' 06/24/22 06:30am<br/> wt vis pH chl<br/> 9.3 59 10 2200<br/> Filt LCM<br/> 8.8 1</p> <p>Mud-Co/Service Mud Inc. Check #11 @ 4522' 06/25/22 06:30pm<br/> wt vis pH chl<br/> 9.2 56 10.5 3000<br/> Filt LCM<br/> 8.0 2</p> |



Formation tops and lithologies have been adjusted to correlate to the electric log.

Oil Shows indicator: Left Block 0-10 tray pcs w/show, Middle Block 10-20 tray pcs w/show, Right Block 20+ tray pcs w/show.

NOTE: RED TEXT INDICATES THE PRESENCE OF OIL.

Drill cutting samples at 10' intervals start at 3750'.

LS: cm/lt gry, micro-m xtal, vry sndy, arg, chalky, foss frags/ool, vf-m in-xtal por, no odor, ns.

SH: lt-m gry/bm/red bm, vry silty/sndy, soft-firm. SS: lt-m gry, pred qtz, vf-f, arg, pyritic, carb, friable, no odor, ns.

LS: cm/lt bm/lt gry, vf-m xtal, silty/sndy/arg, chalky, foss frags/ool/grainy, some ppt-vf in-xtal por, no odor, ns.

LS: cm/lt bm/lt gry, vf-m xtal, vry sndy, vry chalky, foss frags/min ool/grainy, ppt-f in-xtal por, no odor, ns.

LS: cm/lt bm, vf-m xtal, vry chalky, silty/sndy, wht/crm chert, foss frags/min ool/grainy, ppt-f in-xtal por, no odor, ns.

LS: cm/min lt bm, micro-m xtal, silty/sndy, chalky, min crm chert, foss frags/grainy, ppt-f in-xtal por, no odor, ns.

SH: m-dk gry/blk, some vry silty/sndy, carb, soft-firm. SS: lt gry, vf-m, arg, slit carb, friable, no odor, ns.

SH: lt-m gry/blk, vry silty, slit carb, soft-firm. SS: lt gry/lt gry-bm, vf-f, pred qtz, some arg, carb, friable, no odor, ns.

Min SH: as above. SS: lt gry/min gry bm, vf-f, pred qtz, arg, slit carb, friable, no odor, ns.

LS: cm/lt bm/lt-m gry, micro-m xtal, some vry silty/sndy/arg, chalky, foss frags/fusln, min ppt-f in-xtal por, no odor, ns.

LS: cm/lt bm, vf-m xtal, vry silty/sndy/arg, chalky, dolomitic, foss frags/fn dense ool/fusln, ppt-vf in-xtal por, no odor, ns

LS: cm/lt bm, vf-m xtal, silty/sndy, chalky, dolomitic, wht/crm chert, foss frags/ool, 9 pcs w/sfo, ppt-f in-xtal/in-ool por, no fluor, no odor, sfo.

SH: lt-dk gry, vry silty/sndy, carb, soft-firm. Slstn: lt gry, arg, carb, friable.

LS: cm/lt bm, micro-m xtal, some silty/sndy, chalky, min wht chert, some dolomitic, foss frags/ool, 6 pcs w/sfo w/f-m in-xtal/in-ool/oo-castic por, dul yel fluor, no odor, sfo.

LS: cm/lt bm/lt gry, f-m xtal, silty/sndy, chalky, wht/crm chert, foss frags/ool, 27 pcs w/sfo w/f-crs in-xtal/in-ool/oo-castic por, dul yel fluor, no odor, gd sfo.

LS: cm/lt bm/lt gry, micro-m xtal, some silty/sndy, some chalky, pyritic, wht chert, foss frags/fusln/ool, 8 pcs w/sfo w/m-crs in-xtal/in-ool/oo-castic por, dul yel fluor, no odor, sfo.

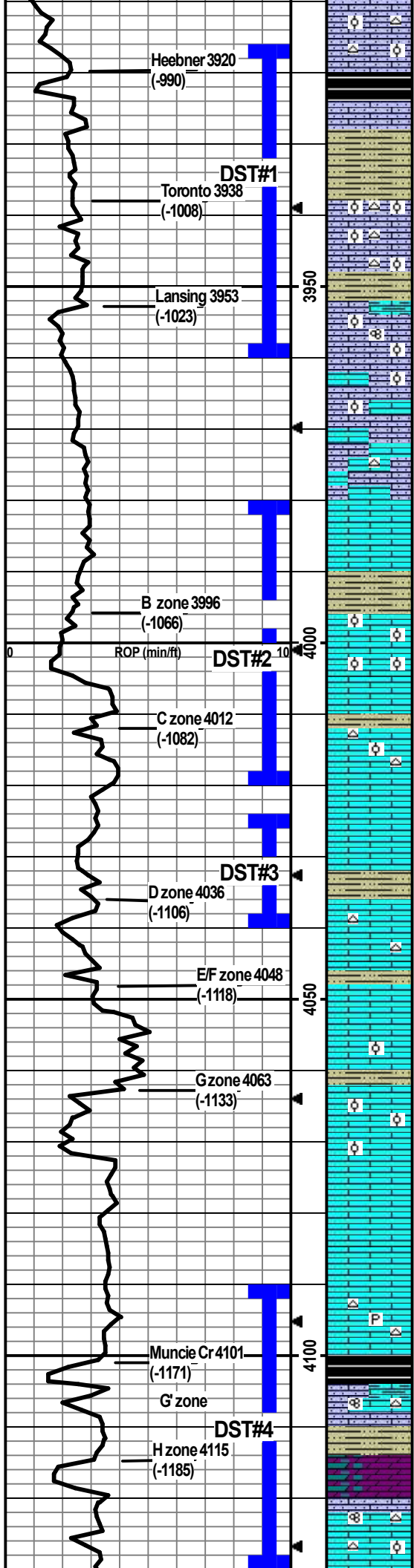
LS: cm/lt bm/lt gry, micro-m xtal, some silty/sndy, some chalky, wht/lt gry chert, dolomitic, foss frags/ool, 14 pcs w/sfo w/f-crs in-xtal/in-ool/oo-castic por, dul yel fluor, no odor, sfo.

Bit Trip @ 2953': replaced damaged PDC bit with new PDC bit.

Bit Trip @ 3721' conn; replaced PDC bit with Tricone Button bit.

Pipe strap TOH for Bit Trip @ 3721' was 2.28' short to board.

Survey Record  
Deg @ Ft  
0.5 @ 266'  
0.5 @ 2036'  
0.5 @ 3721'



LS: cm/lt bm/lt gry, micro-m, some vry silty/sndy, some chalky, wft chert, foss frags/ool, 6 pcs w/sfo w/f-crs in-xtal/in-ool/oo-castic por, dul yel fluor, no odor, sfo.

SH: dk gry/blk, silty, silt carb, soft-firm, fissile.

LS: cm/lt-m bm/lt gry, vf-m xtal, silty/sndy/arg, chalky, foss frags, no vis por, no odor, ns.

SH: lt-dk gry/blk, silty, carb, soft-firm.

LS: cm/lt bm/lt gry, micro-m xtal, vry silty/sndy/arg, min wht/lt bm chert, foss frags/ool, 6 pcs w/sfo w/f-m in-xtal por, dul yel fluor, no odor, sfo.

LS: cm/lt-m bm/lt gry, micro-m xtal, some vry silty/sndy/arg, some chalky, wht/lt bm chert, foss frags/fusln/ool, 11 pcs w/staining and sfo, f-crs in-xtal/in-ool por, dul yel fluor, gd odor, sfo.

SH: lt-m gry/red brn/lt gry-green, some silty, soft-firm.

LS: cm/lt bm/lt gry, micro-m xtal, silty/sndy/arg, chalky, foss frags/fusln/ool, 29 pcs w/staining/sfo w/f-crs in-xtal/in-ool por, brit yel fluor, gd odor, sfo.

LS: cm/lt-m bm/lt gry, micro-m xtal, some silty/sndy, chalky, foss frags/ool/grainy, 4 pcs w/staining/sfo w/f-crs in-xtal/in-ool por, dul yel fluor, no odor, silt sfo.

LS: wht/cm, micro-f xtal, smpl vry chalky, some silty/sndy, min wht/lt bm chert, min foss frags, no vis por, no odor, ns.

LS: wht/cm/min lt bm, micro-f xtal, chalky, no vis por, no odor, ns.

SH: lt-m gry/bm/red-bm, silty, silt carb, soft-firm.

LS: wht/cm, micro-f xtal, chalky, min foss frags w/abund ool, 12 pcs w/sfo w/ppt-m in-xtal/in-ool por, dul yel fluor, no odor, sfo.

LS: wht/cm/min lt bm, micro-m xtal, smpl vry chalky, min foss frags w/ool, 17 pcs w/sfo some w/thicker blk oil, f-crs in-xtal/in-ool por, dul yel fluor, no odor, sfo.

LS: cm/lt/min lt bm/min lt gry, micro-f xtal, chalky, wht chert, min foss frags/min ool, 3 pcs w/staining/sfo, vf-crs in-xtal/in-ool por, dul yel fluor, no odor, sfo. Some SH: med gry/lt gry-green, silty, pyritic, soft.

LS: wht/cm, micro-m xtal, chalky, no vis por, no odor, ns.

LS: wht/cm/min lt brn, micro-m, chalky, no vis por, no odor, ns. (30min)

SH: med gry/lt gry-green/bm, silty/sndy, silt carb, soft-firm.

LS: wht/cm/lt bm, micro-m xtal, some chalky, cm/lt bm chert, min foss frags, ~10% of smpl w/staining/sfo, brit yel fluor, vf-crs/vug in-xtal por, gd odor, gd sfo. (60min)

LS: as above w/-50% of smpl w/sfo, dul yel fluor, gd odor.

LS: wht/cm/lt bm, micro-m, some chalky, min foss frags/ool, 38 pcs w/sfo, dul yel fluor, ppt-m in-xtal por, gd odor, gd sfo.

LS: cm/lt brn, micro-f xtal, some chalky, min dense ool, no vis por, no odor, few pcs w/sfo assume from above.

LS: cm/lt-m bm, micro-m xtal, some chalky, foss frags/ool, bm ool, no vis por, no odor, cont few pcs w/sfo assume from above.

LS: wht/cm/min lt bm, micro-f xtal, some chalky, no vis por, no odor, ns.

LS: same as above, no odor, ns.

LS: cm/lt bm/lt gry, micro-m xtal, chalky, cm/lt bm/lt gry chert, some pyritic, no vis por, no odor, ns.

SH: dk gry/blk, silt silty, silt carb, firm, fissile.

LS: cm/lt brn/lt gry, micro-m xtal, some chalky, some silty/sndy/arg, min foss frags, no vis por, no odor, ns (30min).

LS: cm/lt-dk bm/lt gry, micro-m xtal, some silty/sndy, some chalky, lt bm/lt gry/cm chert, foss frags/fusln, 9 pcs w/sfo, brit yel fluor, vf-m in-xtal por, gd odor, sfo (60min).

Dolo: lt bm, vf-f xtal, sndy, sucrosic, ~90% w/sfo, ppt-vf in-xtal por, brit yel fluor, gd odor, vry gd sfo.

LS: wht/cm/lt bm/lt gry, micro-m xtal, some silty, chalky, cm chert, min foss frags/ool/fusln, 6 pcs w/sfo w/f-crs in-xtal por, dolo from above w/sfo, brit yel fluor, silt crush odor, sfo.

**A-zone**  
15/30/30/60  
1st) 1/4" blow built to 7"; No BB.  
2nd) BOB blow at 22min; No BB.  
IFP 40-68#  
ISIP 1177#  
FFP 80-157#  
FSIP 1154#  
HP 1909-1890#  
Recvd: 126' MCW (90%W, 10%M), 146' MCW (60%W, 40%M).

CFS @ 3948'  
Stop/30"/60"

CFS @ 3960'  
Stop/30"/60"

**DST2) 3980-4020**  
**Lansing B & C-zones**

15/30/30/60  
1st) BOB blow at 12min; SB BB built to 1/2".  
2nd) BOB blow at 18min; SB BB built to 3/4".  
IFP 37-79#  
ISIP 1137#  
FFP 89-168#  
FSIP 1102#  
HP 1979-1896#  
Recvd: 10' Oil (100%O), 166' WCM (20%W, 80%M), 126' MCW (90%W, 10%M).

CFS @ 4000'  
Stop/30"/60"

CFS @ 4020'  
Stop/30"/60"

CFS @ 4040'  
Stop/30"/60"

CFS @ 4055'  
Stop/30"/60"

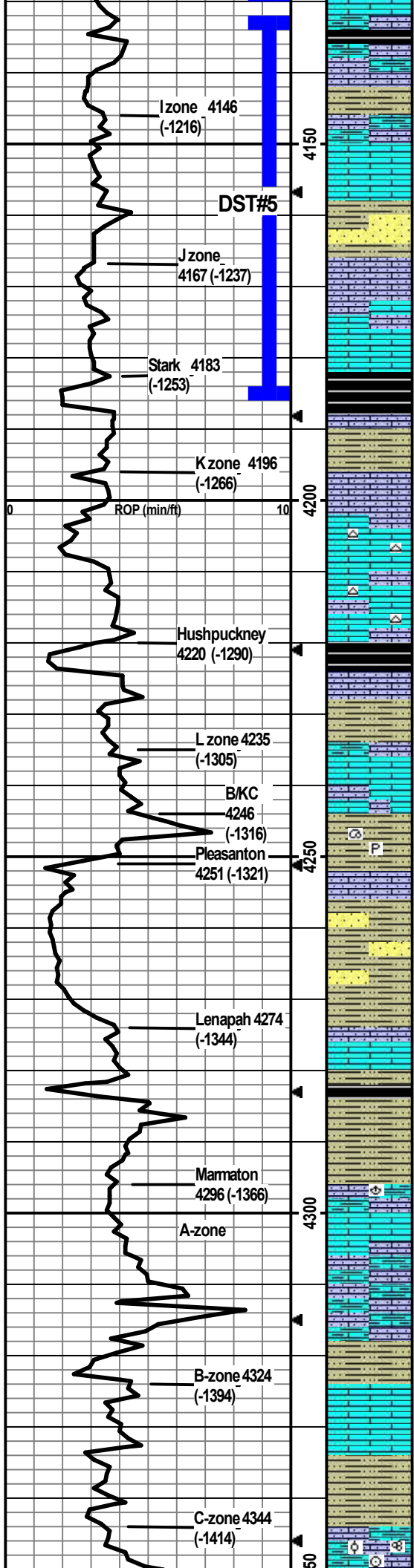
**DST3) 4024-4040**  
**Lansing D-zone**

15/30/30/60  
1st) 1/4" blow built to 1.5"; No BB.  
2nd) SB blow built to 2"; No BB.  
IFP 30-37#  
ISIP 1244#  
FFP 36-54#  
FSIP 1185#  
HP 1983-1971#  
Recvd: 50' WCM w/oil spots (30%W, 70%M).

CFS @ 4110'  
Stop/30"/60"

**DST4) 4090-4030**  
**Lansing G' & H-zones**

15/30/30/30  
1st) SB built to 1.75"; No BB.  
2nd) SB blow built to 3"; No BB.



SH: lt-dk gry/blk/min green-gry, some vry silty/sndy, slit carb, soft-firm.  
 LS: cm/lt-m bm/lt gry, vf-m xtal, some silty/sndy/arg, chalky, no vis por, no odor, ns.

SH: lt-dk gry/red-brn, silty, carb, soft-firm.  
 LS: cm/lt-m bm, micro-m xtal, some silty/sndy/arg, some chalky, foss frags, 38 pcs w/staining/sfo, mostly ppt-f w/some m-crs in-xtal por, dul-brit yel fluor, slit odor, sfo.  
 LS: cm/lt bm, micro-f xtal, some chalky, min foss frags, 29 pcs w/staining/sfo, some blk tar, mostly ppt-f w/some m-crs in-xtal por, dul yel fluor, no odor, sfo.

SH: lt-dk gry/bm/red-brn, vry silty/sndy, slit carb, soft-firm. SS: lt gry, vf-f, arg, carb, friable, no odor, ns.  
 LS: wht/cm/lt min lt bm/min lt gry, micro-f xtal, chalky, some silty, min foss frags, 8 pcs w/staining/min fo on break, w/ppt-m in-xtal por, dul yel fluor, no odor, slit sfo.  
 LS: cm/lt bm/lt gry, micro-m xtal, chalky, foss frags/fusln, 17 pcs w/mostly staining w/fev pcs wfo on break, ppt-m in-xtal por, brit yel fluor, slit odor, sfo.

SH: lt-dk gry/blk/red-brn, silty/sndy, slit carb, firm, fissile.  
 LS: cm/lt bm/lt gry, micro-m xtal, some chalky, some silty/sndy/arg, foss frags/fusln, 13 pcs w/sfo w/crs in-xtal por, dul yel fluor, gd odor, sfo.

SH: lt-dk gry/blk/maroon/red-brn, some vry silty/sndy, slit carb, firm, fissile.  
 LS: wht/cm/lt gry, micro-m xtal, smpl vry chalky, some silty/sndy, wht/cm/lt gry chert, foss frags, 14 pcs w/sfo w/ppt-m in-xtal por, dul yel fluor, no odor, sfo.

LS: cm/lt bm/lt gry, micro-m xtal, some chalky, some silty/sndy, wht/cm/lt gry chert, foss frags, no vis por, no odor, ns. (2 pcs w/show assume from above.)

SH: blk, slit silty, slit carb, firm-hard, fissile.  
 LS: cm/lt gry/lt brn, micro-m xtal, silty/sndy, chalky, foss frags, 3 pcs w/sfo, dul yel fluor, f-m in-xtal por, no odor, sfo.

SH: lt-dk gry/red-brn/bm specks, some vry silty, slit carb, soft-firm.  
 LS: cm/lt bm/lt gry, micro-m xtal, some vry silty/sndy/arg, foss frags, 3 pcs w/staining/sfo, w/vf-m in-xtal por, dul yel fluor, no odor, slit sfo.

LS: cm/lt bm/lt gry-bm, micro-m xtal, some silty/sndy, chalky, foss frags 1 pce w/frac staining, 3 pcs w/sfo w/ppt-m in-xtal por, dul yel fluor, no odor, sfo.

SH: m-dk gry/blk/red-brn, some vry silty, some pyritic, snail foss, carb, soft-firm.  
 LS: cm/lt-m bm/lt gry, micro-m xtal, silty/sndy/arg, chalky, foss frags, no vis por, no odor, ns.

SH: lt-dk gry/dk bm/blk/lt green-gry, some vry silty/sndy, slit carb, soft-firm.  
 SS: cm/lt gry/lt red-brn, vf-f, sr-wr, pred qtz, arg, slit carb, no odor, ns.

LS: cm/lt bm/lt gry, micro-m xtal, some silty/sndy, chalky, foss frags, no vis por, no odor, ns.

SH: lt-dk gry/blk/bm/lt gry-green/maroon, some vry silty/sndy, carb, soft-firm.

SH: lt-dk gry/red-brn, some vry silty/sndy, carb, soft-firm.  
 LS: cm/lt gry/lt brn, micro-m xtal, some vry silty/sndy/arg, some chalky, foss frags/brac, 3 pcs w/staining/sfo, ppt-m in-xtal por, brit yel fluor, no odor, slit sfo.

LS: wht/cm/lt-m bm/lt gry, micro-m xtal, chalky, some silty/arg w/red mottling, foss frags, no vis por, no odor, ns.

LS: same as above, no odor, ns.

SH: lt-dk gry/red-brn/maroon, some vry silty/sndy, slit carb, firm.

LS: cm/lt-m bm, micro-m xtal, some 2ndry xtal, min chalky, min foss frags, no vis por, no odor, ns.

SH: lt-dk gry/maroon/red-brn/mustard yel, some vry silty, slit carb, soft-firm.

LS: cm/lt gry, micro-m xtal, some vry silty/arg, some chalky, foss frags/crin/fusln/dense ool, no vis por, no odor, ns.

IFP 35-52#  
 ISIP 1114#  
 FFP 47-61#  
 FSIP 1000#  
 HP 2050-2018#  
 Recvd: 63' GIP; 50' OCM (5%O, 95%M).

CFS @ 4160'  
 Stop/30"/60"

CFS @ 4185'  
 Stop/30"/60"

**DST5) 4132-4185 Lansing I & J-zones**  
 10/30/30/30  
 1st 1/4" blow built to 1/2"; No BB.  
 2nd SB blow built to 1/4"; No BB.

IFP 33-37#  
 ISIP 509#  
 FFP 33-32#  
 FSIP 55#  
 HP 2054-2003#  
 Recvd: 10' Mud w/oil spots (100%M).

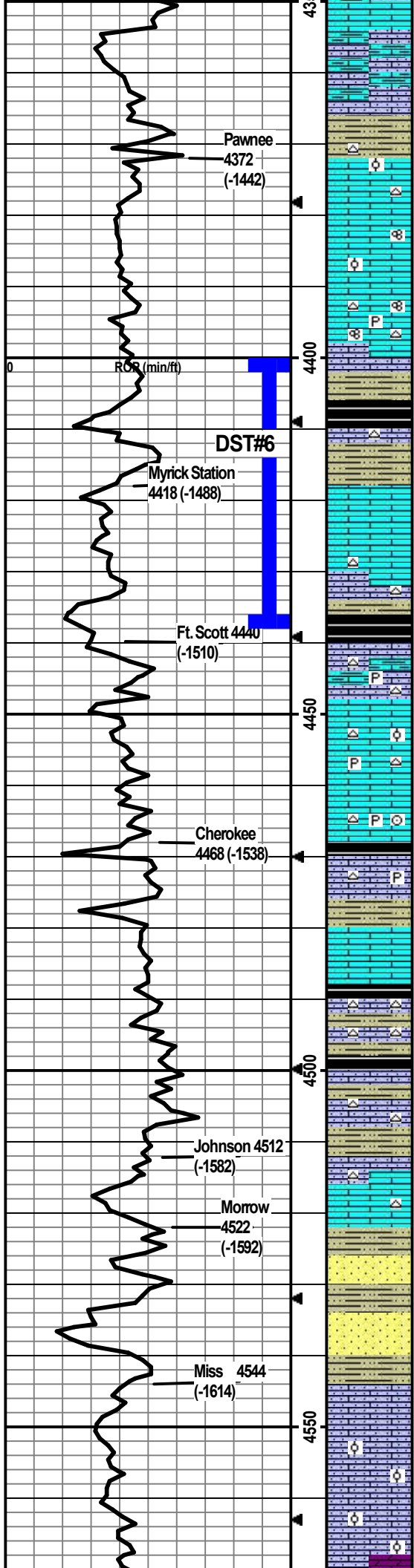
CFS @ 4220'  
 Stop/30"/60"

CFS @ 4245'  
 Stop/30"/60"

CFS @ 4320'  
 Stop/30"/60"

CFS @ 4332'  
 Stop/30"/60"





LS: cm/lt bm/lt gry, micro-m xtal, some vry silty/sndy/arg, chalky, foss frags, no vis por, no odor, ns.

CFS @ 4360'  
Stop/30"/60"

SH: lt-dk gry/red-bm/gry-green/maroon/mustard yel, silty, slit carb, soft-firm.

LS: cm/lt bm, micro-m xtal, some chalky, min wht/cm/lt gry chert, min foss frags/min dense ool, no vis por, no odor, ns.

LS: cm/min lt bm, micro-m xtal, chalky, min foss frags/fush/ool, no vis por, no odor, ns

CFS @ 4392'  
Stop/30"/60"

LS: cm/lt-m bm, micro-m xtal, some silty, some chalky, some pyritic, cm/lt bm chert, foss frags/fush, no vis por, no odor, ns.

**DST6) 4400-4438  
Myrick Station**

15/30/30/30  
1st) Surface blow built to 1/4"; No BB.  
2nd) No blow; No BB.  
IFP 38-37#  
ISIP 114#  
FFP 36-33#  
FSIP 45#  
HP 2225-2146#  
Recvd: 5' oil spotted mud (100%M).

SH: m-dk gry/blk/maroon/lt gry-green/mustard yel, silty, slit carb, soft-firm, fissile.

LS: cm/lt-m brn, micro-m xtal, some chalky/silty, wht/lt gry chert, foss frags, no vis por, no odor, ns.

SH: m gry/blk/red-brn, some vry silty/sndy, slit carb, soft-firm.

**LS: cm/lt gry/min lt bm, micro-m xtal, some chalky, min foss frags, 13 pcs w/staining, no vis oil, f-vug in-xtal por, xtal lined vugs, brit yel fluor, no odor.**

LS: cm/lt-m bm/lt gry, micro-m xtal, some silty, chalky, wht/cm/lt gry chert, foss frags, no vis por, no odor, ns.

CFS @ 4438'  
Stop/30"/60"

SH: m-dk gry/blk, some silty, carb, soft-firm.

LS: cm/lt bm, micro-m xtal, some silty/sndy/arg, some chalky, wht/lt gry/cm chert, pyritic, foss frags, no vis por, no odor, ns.

LS: cm/lt-m bm, micro-m xtal, some chalky, cm/lt bm chert, min pyrite, foss frags/min dense ool, no vis por, no odor, ns.

LS: cm/lt-dk bm, micro-m xtal, some chalky, min lt bm chert, foss frags/min crin, no vis por, no odor.

CFS @ 4470'  
Stop/30"/60"

SH: dk gry/blk, slit silty, carb, firm, fissile.

LS: cm/lt-m bm/lt gry, micro-m xtal, chalky, silty, min pyrite, min lt bm chert, foss frags, no vis por, no odor, ns.

SH: lt-dk gry, some vry silty, carb, soft-firm, fissile.

LS: cm/lt bm/lt gry-bm, micro-m xtal, some chalky, foss frags, no vis por, no odor, ns.

CFS @ 4490'  
Stop/30"/60"

SH: m-dk gry/blk, some vry silty, carb, soft-firm.

LS: cm/lt bm/lt gry, micro-m xtal, some silty/sndy, chalky, lt bm/orange chert, foss frags, no vis por, no odor, ns.

SH: lt-dk gry/blk/lt gry-green/red brn, some vry silty, carb, soft-firm.

**LS: lt bm/lt gry-bm/lt gry, micro-m xtal, smpl vry chalky, some silty/sndy, lt bm chert, foss frags/ool, 4 pcs w/sfo, thick oil, f-vug in-xtal por, no fluor, no odor, sfo.**

SH: lt-dk gry/lt green-gry/maroon/red-brn, some vry silty, slit carb, soft-firm.

**LS: cm/lt bm/lt gry, micro-m xtal, some silty/chalky, cm/lt bm chert, foss frags, 7 pcs w/sfo, thick oil, f-vug in-xtal por, no fluor, no odor, sfo. (Show rx look same as above).**

CFS @ 4522'  
Stop/30"/60"

SH: m-dk gry/red-brn/maroon/mustard yel, some silty, carb, firm.

SS: wht, vf-m, sr-wr, clean qtz, slit carb, some hard non-friable, mostly friable, no odor, ns.

SH: lt-dk gry/red-brn/maroon/lt green/mustard yel, some silty/sndy, slit carb, soft-firm. Some fcrs SS. No odor, ns.

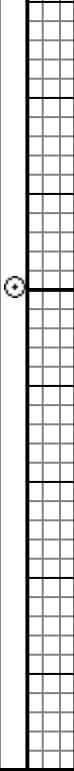
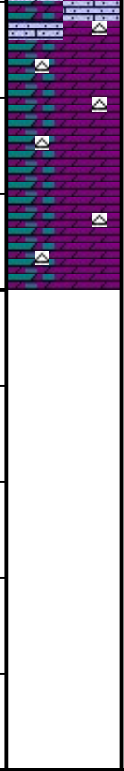
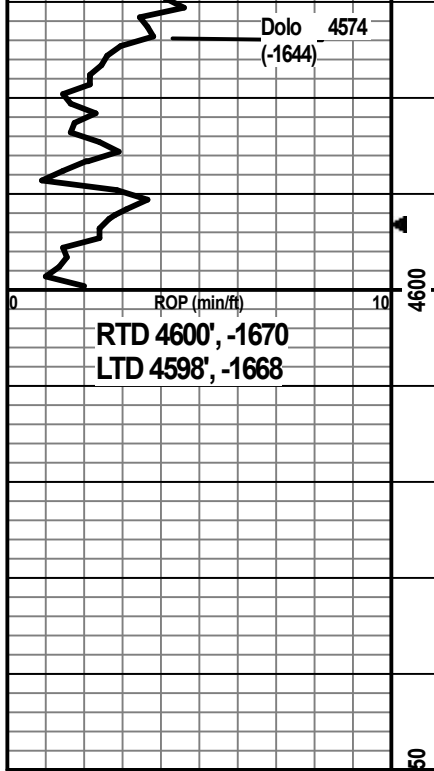
SS: wht/lt yel/mustard yel, fcrs grained, sr-wr, yel is arg, some hard non-friable, some friable, no odor, ns. SH: as above. Some wht chalk w/red spots.

LS: wht/cm/lt yel, red spots, vf-m xtal, silty/sndy, chalky, no vis por, no odor, ns.

CFS @ 4545'  
Stop/30"/60"

LS: wht/cm/min lt yel, some red spotting, micro-m xtal, silty/sndy/chalky, oolitic, no vis por, no odor, ns.

LS: wht/cm/lt yel/lt gry, micro-m xtal, some vry sndy/chalky, oolitic, no vis por, no odor, ns. Few pcs Dolo: lt bm, vf-f, sucrosic, sndy, ppt-vf in-xtal por, no odor, ns.



odor, ns.

Dolo: lt-m bm/lt gry, vf-f xtal, sucrosic, sndy, wht/crm chert w/bm mottling, ppt-vf in-xtal por, no odor, ns.

Dolo: lt-m bm, vf-f xtal, sucrosic, sndy, wht/crm chert w/min bm mottling, ppt-vf in-xtal por, no odor, ns. Smpl vry chalky.

Dolo: as above w/crm/wht ool chert, ppt-vug in-xtal por, no odor, ns. Smpl vry chalky.

TD @4600'

CFS @4600'  
 Stop/30"/60"  
 TOH for logging.

# SWIFT



P. O. Box 466  
Ness City, KS 67560  
Off: 785-798-2300



## Invoice

|           |           |
|-----------|-----------|
| DATE      | INVOICE # |
| 6/15/2022 | 34141     |

|   |
|---|
| BILL TO   |
| Shakespeare Oil Company, Inc<br>202 West Main Street<br>Salem, IL 62881 |

- Acidizing
- Cement
- Tool Rental

| TERMS      | Well No.   | Lease | County | Contractor       | Well Type | Well Category | Job Purpose     | Operator  |
|------------|--|-------|--------|------------------|-----------|---------------|-----------------|-----------|
| Net 30     | #3-27  | Cale  | Gove   | Duke Drlg Rig #4 | Oil       | Development   | Shallow Surface | David E   |
| PRICE REF. | DESCRIPTION                                      |       |        |                  | QTY       | UM            | UNIT PRICE      | AMOUNT    |
| 575D       | Mileage - 1 Way                                  |       |        |                  | 80        | Miles         | 7.00            | 560.00    |
| 576D-S     | Pump Charge - <u>Shallow Surface</u> (< 500 Ft.) |       |        |                  | 1         | Job           | 1,100.00        | 1,100.00  |
| 290        | D-Air  |       |        |                  | 2         | Gallon(s)     | 42.00           | 84.00T    |
| 325        | Standard Cement                                  |       |        |                  | 170       | Sacks         | 15.00           | 2,550.00T |
| 278        | Calcium Chloride                                 |       |        |                  | 8         | Sack(s)       | 40.00           | 320.00T   |
| 279        | Bentonite Gel                                    |       |        |                  | 3         | Sack(s)       | 40.00           | 120.00T   |
| 581D       | Service Charge Cement                            |       |        |                  | 170       | Sacks         | 2.00            | 340.00    |
| 583D       | Drayage  |       |        |                  | 667       | Ton Miles     | 1.00            | 667.00    |
|            | Subtotal   |       |        |                  |           |               |                 | 5,741.00  |
|            | Sales Tax Gove County                            |       |        |                  |           |               | 8.50%           | 261.29    |

502-5 9

RECEIVED  
JUN 24 2022

|                                     |              |            |
|-------------------------------------|--------------|------------|
| <b>We Appreciate Your Business!</b> | <b>Total</b> | \$6,002.29 |
|-------------------------------------|--------------|------------|





CHARGE TO: Shawspence Oil & Gas  
 ADDRESS \_\_\_\_\_  
 CITY, STATE, ZIP CODE \_\_\_\_\_

TICKET 34141

PAGE 1 OF 1

SERVICE LOCATIONS:  
 1. Flays Ks WELL/PROJECT NO. 3-27 LEASE CAIE COUNTY/PARISH Gove STATE KS CITY \_\_\_\_\_ DATE 6-15-22 OWNER \_\_\_\_\_  
 2. Ness City CONTRACTOR Duke RIG NAME/NO. # 4 SHIPPED VIA by DELIVERED TO location ORDER NO. \_\_\_\_\_  
 3. WELL TYPE Oil WELL CATEGORY Development JOB PURPOSE Shallow Surface WELL PERMIT NO. \_\_\_\_\_ WELL LOCATION \_\_\_\_\_  
 4. REFERRAL LOCATION \_\_\_\_\_ INVOICE INSTRUCTIONS \_\_\_\_\_

| PRICE REFERENCE | SECONDARY REFERENCE/PART NUMBER | ACCOUNTING |      | DESCRIPTION | QTY. | U/M | QTY. | U/M | UNIT PRICE | AMOUNT  |
|-----------------|---------------------------------|------------|------|-------------|------|-----|------|-----|------------|---------|
|                 |                                 | LOC        | ACCT |             |      |     |      |     |            |         |
| 575             |                                 | 1          |      |             |      |     | 80   | mi  | 7.00       | 560.00  |
| 576.5           |                                 | 1          |      |             |      |     | 1    | PA  | 1100.00    | 1100.00 |
| 290             |                                 | 1          |      |             |      |     | 2    | bar | 42.00      | 84.00   |
| 325             |                                 | 2          |      |             |      |     | 170  | 00  | 15.00      | 2550.00 |
| 278             |                                 | 2          |      |             |      |     | 8    | SX  | 40.00      | 320.00  |
| 279             |                                 | 2          |      |             |      |     | 3    | SX  | 40.00      | 120.00  |
| 581             |                                 | 2          |      |             |      |     | 170  | SX  | 2.00       | 340.00  |
| 583             |                                 | 2          |      |             |      |     | 667  | TM  | 1.00       | 667.00  |

REMIT PAYMENT TO:  
**SWIFT SERVICES, INC.**  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.  
**X**

DATE SIGNED \_\_\_\_\_ TIME SIGNED \_\_\_\_\_  A.M.  P.M.

SURVEY:  AGREE  UNDECIDED  DISAGREE

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?  YES  NO  
 WE UNDERSTOOD AND MET YOUR NEEDS?  YES  NO  
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?  YES  NO  
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?  YES  NO  
 ARE YOU SATISFIED WITH OUR SERVICE?  YES  NO

PAGE TOTAL 5741.00  
 TAX 261.29  
 TOTAL 6002.29

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.  
 SWIFT OPERATOR Davis Esleron APPROVAL  
 Thank You!



JOB LOG

SWIFT Services, Inc.

DATE 6-15-22 PAGE NO.

CUSTOMER Shakespeare WELL NO. 3-27 LEASE CALE JOB TYPE Shallow Surf TICKET NO. 34141

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL) (GAL) | PUMPS |   | PRESSURE (PSI) |        | DESCRIPTION OF OPERATION AND MATERIALS |
|-----------|------|------------|--------------------|-------|---|----------------|--------|--|
|           |      |            |                    | T     | C | TUBING         | CASING |  |
|           | 1230 |            |                    |       |   |                |        | On location                            |
|           |      |            |                    |       |   |                |        | CSG - 8 5/8                            |
|           |      |            |                    |       |   |                |        | RTD - 266                              |
|           |      |            |                    |       |   |                |        | TOTAL PIPE - 266.70                    |
|           | 1400 |            |                    |       |   |                |        | Break circ on Btm                      |
|           |      | 5          | 10                 |       |   | 200            |        | PUMP WITH SPACER                       |
|           |      | 5          | 42                 |       |   | 200            |        | PUMP CHRT - 170 sx @ 14.7 116          |
|           |      | 5          | 0                  |       |   |                |        | START DISP                             |
|           |      | 5          |                    |       |   |                |        | CIRC CEMENT - 25 sx                    |
|           | 1430 | 5          | 15.5               |       |   | 400            |        | END DISP                               |
|           |      |            |                    |       |   |                |        | JOB Complete                           |
|           |      |            |                    |       |   |                |        | THANKS                                 |
|           |      |            |                    |       |   |                |        | DAVID, SEYM & ISAAC                    |

# SWIFT



P. O. Box 466  
Ness City, KS 67560  
Off: 785-798-2300



## Invoice

|           |           |
|-----------|-----------|
| DATE      | INVOICE # |
| 6/26/2022 | 34580     |

|   |
|---|
| BILL TO   |
| Shakespeare Oil Company, Inc<br>202 West Main Street<br>Salem, IL 62881 |

RECEIVED  
JUL 05 2022

- Acidizing
- Cement
- Tool Rental

| TERMS                               | Well No.                                       | Lease | County | Contractor       | Well Type | Well Category | Job Purpose      | Operator    |
|-------------------------------------|--|-------|--------|------------------|-----------|---------------|------------------|-------------|
| Net 30                              | #3-27 S...                                     | Cale  | Gove   | Duke Drig Rig #4 | SWD       | Development   | 5 1/2 Longstring | Wayne       |
| PRICE REF.                          | DESCRIPTION                                    |       |        |                  | QTY       | UM            | UNIT PRICE       | AMOUNT      |
| 575D                                | Mileage - 1 Way                                |       |        |                  | 80        | Miles         | 7.00             | 560.00      |
| 578D-L                              | Pump Charge - Long String                      |       |        |                  | 1         | Job           | 1,600.00         | 1,600.00    |
| 221                                 | Liquid KCL (Clayfix)                           |       |        |                  | 2         | Gallon(s)     | 25.00            | 50.00       |
| 281                                 | Mud Flush                                      |       |        |                  | 500       | Gallon(s)     | 2.00             | 1,000.00T   |
| 330                                 | Swift Multi-Density Standard (MIDCON II)       |       |        |                  | 350       | Sacks         | 19.50            | 6,825.00T   |
| 276                                 | Flocele  |       |        |                  | 100       | Lb(s)         | 3.00             | 300.00T     |
| 290                                 | D-Air  |       |        |                  | 5         | Gallon(s)     | 42.00            | 210.00T     |
| 581D                                | Service Charge Cement                          |       |        |                  | 350       | Sacks         | 2.00             | 700.00      |
| 583D                                | Drayage  |       |        |                  | 1,396     | Ton Miles     | 1.00             | 1,396.00    |
|                                     | Subtotal                                       |       |        |                  |           |               |                  | 12,641.00   |
|                                     | SWD &/Or InJection Well, Exempt From Sales Tax |       |        |                  |           |               | 0.00%            | 0.00        |
| <b>We Appreciate Your Business!</b> |  |       |        |                  |           |               | <b>Total</b>     | \$12,641.00 |

502-5 94

DW



CHARGE TO: **SHAKESPEARE OIL CO.**  
 ADDRESS  
 CITY, STATE, ZIP CODE

TICKET **34580**

PAGE **1** OF **1**

SERVICE LOCATIONS  
 1. **NESS CITY, KS** WELL/PROJECT NO. **3-27 subd** LEASE **CALE** COUNTY/PARISH **GOVE** STATE **KS** CITY  
 2.  SERVICE CONTRACTOR **DUKE DRILLING #4** RIG NAME/NO. **LOCATION** DELIVERED TO  
 3.  SALES WELL TYPE **DEVELOPMENT** WELL CATEGORY **S 1/2 LONGSTRONG** JOB PURPOSE  
 4. **DISPOSAL** WELL PERMIT NO. **S/Campus, Ks** WELL LOCATION  
 REFERRAL LOCATION INVOICE INSTRUCTIONS

| PRICE REFERENCE | SECONDARY REFERENCE/<br>PART NUMBER | ACCOUNTING |      | DESCRIPTION                  | QTY.  | U/M | QTY. | U/M | UNIT PRICE | AMO     |
|-----------------|-------------------------------------|------------|------|------------------------------|-------|-----|------|-----|------------|---------|
|                 |                                     | LOC        | ACCT |                              |       |     |      |     |            |         |
| 575             |                                     | 1          |      |                              | 80    | ME  |      |     | 7.00       | 560.00  |
| 578             |                                     | 1          |      | MILEAGE # 114                | 1     | JOB | 2455 | FT  | 1600.00    | 1600.00 |
| 221             |                                     | 1          |      | PUMP CHARGE - LONGSTRONG     | 2     | GAL |      |     | 25.00      | 50.00   |
| 281             |                                     | 1          |      | LEAVED HCl                   | 500   | GAL |      |     | 2.00       | 1000.00 |
| 330             |                                     | 1          |      | MUD FLUSH                    | 350   | SBS |      |     | 19.50      | 6825.00 |
| 276             |                                     | 1          |      | SWIFT MULTI-DENSITY STANDARD | 100   | WSS |      |     | 3.00       | 300.00  |
| 290             |                                     | 1          |      | FLOECIE                      | 5     | GAL |      |     | 42.00      | 210.00  |
| 581             |                                     | 1          |      | D-ADR                        | 350   | SBS |      |     | 2.00       | 700.00  |
| 583             |                                     | 1          |      | SERVICE CHARGE CEMENT        | 34900 | WSS | 1396 | TM  | 1.00       | 1396.00 |
|                 |                                     |            |      | DRAYAGE                      |       |     |      |     |            |         |

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.

DATE SIGNED **6-26-2022** TIME SIGNED **1330**  A.M.  P.M.

REMIT PAYMENT TO:  
**SWIFT SERVICES, INC.**  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY  
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?  
 WE UNDERSTOOD AND MET YOUR NEEDS?  
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?  
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?  
 ARE YOU SATISFIED WITH OUR SERVICE?  
 YES  NO  
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL **12641.00**

TOTAL **12641.00**

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR **Wayne Wilson** APPROVAL

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 6-26-2022 PAGE NO. 1

CUSTOMER SHAKESPEARE OIL Co. WELL NO. 3-27 SWD LEASE CALE JOB TYPE 5 1/2" LONGSTRENGTH TICKET NO. 34580

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBLS/GAL) | PUMPS |   | PRESSURE (PSI) |        | DESCRIPTION OF OPERATION AND MATERIALS       |
|-----------|------|------------|-------------------|-------|---|----------------|--------|--|
|           |      |            |                   | T     | C | TUBING         | CASING |  |
|           | 1530 |            |                   |       |   |                |        | ON LOCATION - RUNNING CASING                 |
|           |      |            |                   |       |   |                |        | TD- 4598' SET = 2455                         |
|           |      |            |                   |       |   |                |        | TP- 2455' 5 1/2" # 15.5                      |
|           |      |            |                   |       |   |                |        | ST- 43'                                      |
|           | 1605 |            |                   |       |   |                |        | BREAK CIRCULATION                            |
|           | 1710 |            |                   |       | ✓ |                | 800    | DROP BALL - SET PACKERSHOE                   |
|           | 1715 | 6          | 12                |       | ✓ |                | 300    | PUMP MUDEFUSH                                |
|           | 1717 | 6          | 20                |       | ✓ |                | 300    | PUMP KCL FLUSH                               |
|           | 1730 |            | 7                 |       |   |                |        | PLUG RH (30SKS)                              |
|           | 1740 | 4 1/2      | 119               |       | ✓ |                | 200    | MAX CEMENT- 215 SKS @ 11.2 PPG               |
|           |      | 3 1/2      | 27                |       | ✓ |                | 75     | 80 SKS @ 13.0 PPG                            |
|           |      | 3 1/2      | 7                 |       | ✓ |                | 75     | 25 SKS @ 14.0 PPG                            |
|           | 1825 |            |                   |       |   |                |        | WASH OUT PUMP - LEAKS                        |
|           | 1825 |            |                   |       |   |                |        | RELEASE LATCH DOWN PLUG                      |
|           | 1830 | 6          | 0                 |       | ✓ |                |        | DISPLACE PLUG                                |
|           |      | 6          | 55                |       | ✓ |                | 450    |  |
|           | 1840 | 4 1/2      | 57.4              |       |   |                | 1500   | PLUG DOWN - PSI UP LATCH IN PLUG             |
|           | 1845 |            |                   |       |   |                | OK     | RELEASE PSI - HELD                           |
|           |      |            |                   |       |   |                |        | CIRCULATED 30 SKS CEMENT TO PST              |
|           |      |            |                   |       |   |                |        | WASH TRUCK                                   |
|           | 2000 |            |                   |       |   |                |        | JOB COMPLETE THANK YOU<br>WAYNE, KERRY, JOHN |